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In the list of titles the year has been omitted where it is the same as the volume year of the "Record," namely (1960).

- Anon.** (1). Professor José Manoel Ruiz 5.II.1913 + 28.V.1959. Mem. Inst. Butantan 29 : 3-8 portr.
- Anon.** (2). British Cenozoic fossils 1959 : 1-130 44 pls. B.M. (N.H.) London.
- Abbott, B. J.** A note on the oxygen and temperature tolerances of the triclads *Phagocata gracilis* (Haldeman) and *Dugesia tigrina* (Girard). Va J. Sci. n.s. 11 : 1-8.
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- Arnold, H.** *Terebella lutensis* Bather (Annel.) in der Münsterländer Oberkreide. Paläont. Z. 30, Sonderheft 1956 : 58.
- Asadov, S. M.** (Helminths of *Rupicapra rupicapra caucasica* in Azerbaidjan). Izv. Akad. Nauk. Azerb. S.S.R. biol. agr. 5 1959 : 93-96. [Russian summary].
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- Babero, B. B. & Thomas, L. J.** A record of *Pharurus oserkai* (Skrjabin, 1942) in an Alaskan whale. J. Parasit. 46 : 726.
- Bacci, G. & Bortesi, O.** Conferma della variabilità dei genotipi sessuali nel Polichete ermafrodita *Ophryotrocha puerilis sibirica*. R.C. Accad. Lincei (8) 28 : 92-94.
- Baer, J. G.** Contribution à l'étude des helminthes parasites du Merle *Turdus merula* L. I. Une nouvelle espèce de trématode *Euamphimerus pancreaticus* n. sp. (Opisthorchiidae). Bull. Soc. neuchatel. Sci. nat. (3) 83 : 63-70 1 pl. [English summary].
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- Beverley-Burton, M. (2).** A new dilepidid cestode, *Mashonalepis dafyddi* n. g., n. sp., from the gray Heron, *Ardea cinerea* L. *J. Parasit.* **46** : 487-490 7 figs.
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- Bezubik, B. & Furmaga, S.** The parasites in *Macacus cynomolgus* L. from Indonesia. *Acta Parasit. polon.* **8** : 335-344.
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- Birkenholz, D. E.** see Hunter, G. W.
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- Birkenmajer, K.** *Fucusopsis angulatus* Palibin (Problematica) from the Variegated Beds (Danian-Paleocene) of the Pieniny Klippen-Belt Mantle (Central Carpathians). Ann. Soc. géol. Pologne 29 1959 : 227-232 1 pl. figs. [English summary].
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- Birová-Volosinovičová, V. (2).** Helminthofauna des Hausrathuhns (*Melagris gallopavo domesticus* L.) in der Slowakei-C.S.R. Biológia, Bratislava 15 : 427-437 5 figs. [German summary].
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- Bischoff, G. & Stoppel, D.** Zum Alter des Wollenberg-Kellerwald-Quarzits (Rheinisches Schiefergebirge). Neues Jb. Geol. Paläont. B 1957 1 : 14-24 figs.
- Bischoff, G. & Ziegler, W.** Die Conodonten-chronologie des Mitteldevons und des tiefsten Oberdevons. Abh. hess. Landesanst. Bodenforsch. 22 1957 : 1-136 21 pls. figs.
- Bizilevičius, S. (1).** Zur Frage der Resistenz der Eier von *Ascaris lumbricoides* und *Trichocephalus trichiurus* gegenüber den verschiedenen Auszentraktoren. Acta parasit. lithuan. 2 : 39-54.
- Bizilevičius, S. (2).** Lebensfähigkeit und Entwicklung der *Ascaris lumbricoides* und *Trichocephalus trichiurus* Eier im Erdboden. Acta parasit. lithuan. 2 1959 [1960] : 115-140.
- Bizzell, W. E.** see Giordis, H.
- Boev, S. N. (1).** On the systematic position of *Gelanocaulus boevi* Asadov, 1958. Trud. Inst. Zool. Alma Ata 14 : 43-46 fig. [In Russian].
- Boev, S. N. (2).** On *cysticerci* occurring in muscles of roebucks. Trud. Inst. Zool. Alma-Ata 14 : 47-53 7 figs. [In Russian].
- Boev, S. N.** see Syni Sho-Tai.
- Bogojavlenskij, J. K.** The hypodermis structure of some Ascaridata. Acta parasit. lithuan. 2 1959 [1960] : 83-95.
- Bogoslawsky, A. S.** Observations on the reproduction of *Conochiloides coenobasis* Skorikov and the statement of a physiological category of females new to heterogonous Rotifera. Zool. Zh. 39 : 670-677 9 figs. [English summary].
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- Bondareva, V. I. (2).** On the reduction of the infection of sheep with Cestodes in Southern Kazakhstan. Trud. Inst. Zool. Alma-Ata 14 : 67-68. [In Russian].
- Bondi, C.** Osservazioni sui rapporti tra rigenerazione degli occhi e sistema nervoso in *Dugesia lugubris*. Arch. zool. ital. 44 1959 [1960] : 141-150 3 figs.
- Bonney, D. G.** see Clark, R. B.
- Bortesi, O.** see Bacci, G.
- Bosher, J. E.** Longevity in vitro of *Diylenchus dipsaci* (Kühn) Filipjev from narcissus. Proc. helminth. Soc. Wash. 27 : 127-128.
- Bouckaert, J.** Stratigraphie et paléontologie de la super-zone R, dans les vallées de la Berwinne et de la Geule. Mem. Inst. géol. Univ. Louvain 21 : 3-94 5 pls. figs. [English abstract].
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- Boyd, J. M.** Studies of the differences between the fauna of grazed and ungrazed grassland in Tiree, Argyll. Proc. zool. Soc. Lond. 135 : 33-54.
- Bozhkov, D.** see Yanchev, Y.
- Brambell, M. R.** see Field, A. C.
- Brand, J.** van den see D'Herde, J.
- Brangham, A. N. (1).** Ant Vectors in the life-cycle of the lesser liver-fluke, *Dicrocoelium dendriticum* (Rudolphi 1819). Ent. Gaz. (10) 1959 : 111-131.
- Brangham, A. N. (2).** Notes on ant vectors in the life-cycle of a Trematode. Ent. Mag. (4) 20 243 : 54-56.
- Bravo-Hollis, M.** Tremátodos de peces de aguas mexicanas del Pacífico. XVI. *Microcotyle caballeroi* n. sp., monogéneo microcotilido de la subfamilia Microcotylinae Monticelli 1892. in Libro homenaje al Dr. Eduardo Caballero y Caballero, Jubileo 1930-60. Mexico, D.F. (Instituto Politécnico Nacional) : 87-93 9 figs.
- Bravo-Hollis, M.** see Brenas, R.-R.
- Bravo-Hollis, M.** see Caballero y C., E.
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- Brenas, R.-R. & Bravo-Hollis, M.** Helminths of the República de Costa Rica IX. Nematoda 3. Algunos nemátodos de reptiles, con descripción de dos nuevas especies : *Atractis caballeroi* n. sp. y *Cyrtosomum longicaudatum* n. sp. in Libro homenaje al Dr. Eduardo Caballero y Caballero, Jubileo 1930-1960. Mexico, D.F. (Instituto Politécnico Nacional) : 451-464 5 pls.
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- Brown, H. W.** see Dunn, M. C.
- Brown, M. L.** see Rothstein, N.
- Bruce, J. I., Llewellyn, L. M. & Sadun, E. H.** Susceptibility of wild mammals to experimental infection with *Schistosoma mansoni*. J. Parasit. 46 5 Sect. 2 : 33. [Abstract].
- Bruskin, B. R.** A histological investigation of glycogen in the cat liver fluke (*Opisthorchis felinus*). Dokl. Akad. Nauk S.S.S.R. (Transl.) Biol. Sci. 127 1959 : 697-699 figs.
- Bruskin, B. R.** see Logachev, E. D.
- Brygoo, E. R.** Evolution de *Foleyella furcata* (von Linnew, 1899) chez *Culex fatigans* Wiedemann, 1828. Arch. Inst. Pasteur Madagascar 28 : 129-138.
- Brygoo, E. R., Capron, A. & Randriamalala, J. C.** Sur quelques méthodes de coloration sélective des coques d'oeufs d'helminthes parasites de l'homme. Bull. Soc. Path. exot. 52 : 655-664.
- Brygoo, E. R.** see Capron, A.
- Brygoo, E. R.** see Chabaud, A. E.
- Brygoo, E. R.** see Dodin, A.
- Brzeski, M. (1).** *Cephalobus (Heterocephalobus) kazanowski* subgen. nov., sp. nov. (Nematoda : Cephalobidae). Bull. Acad. polon. Sci. Cl. Sci. biol. 8 : 163-165 3 figs.
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- Buenaventura, A.** see Monserrat, C.
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- Butorina, L. G., Kutikova, L. A. & Luferova, L. A.** On rotifers of the genus *Notholca* of the Rybinsk water reservoir. Byull. Inst. Biol. Vodochr. No. 8-9 : 17-18 2 figs. [In Russian].
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- Buttner, A. & Vacher, C. (2).** Recherches sur le développement et l'identification de *Plagiorchis (Multiglandularis) cirratus* (Rudolphi 1802). 1. Étude du cycle évolutif. Ann. Parasit. hum. comp. 35 : 268-281 4 figs.
- Caballero y C., E.** Trematodes de las tortugas de México. VII. Descripción de un Trematodo Digeno que parasita a tortugas marinas comestibles del Puerto de Acapulco, Guerrero. An. Inst. biol. Mex. 30 : 159-166 2 figs. [English summary].
- Caballero y C., E. & Bravo-Hollis, M.** Trematodos de peces de aguas mexicanas del Pacífico. XVIII. Dos nuevos generos de Monogenoidea Bychowsky, 1937. An. Inst. biol. Mex. 60 : 167-181 14 figs. [English summary].
- Caballero y C., E. & Grocott, R. G.** Helmintos de la Republica de Panamá. XXIII. Estudios de dos trematodos de murciélagos, con descripción de una nueva especie. Ciencia, Mex. 19 1959 : 244-248 2 figs.
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- Campbell, W. C. & Richardson, T.** Stimulation of cysticercus evagination by means of surfactants. J. Parasit. 46 : 490.

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- Capron, A. & Brygoo, E. R. (1).** Contribution à la connaissance de la bilharziose intestinale à *Schistosoma mansoni* à Madagascar. I.—Enquête malacologique et parasitologique. *Bull. Soc. Path. exot.* **52** 1959 : 503–515 map.
- Capron, A. & Brygoo, E. R. (2).** Sur la constitution des oeufs d'helminthes. I.—Présence et formation d'une substance acido-alcool-résistante de la coque. *Bull. Soc. Path. exot.* **52** : 574–577.
- Capron, A.** see Deblock, S.
- Capron, A.** see Dodin, A.
- Cardell, R. R., Jr. & Philpott, D. E.** The ultrastructure of the tail of the cercaria of *Himasthla quissetensis* (Miller and Northup, 1926). *Trans. Amer. micr. Soc.* **79** : 442–450 7 figs.
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- Castiaux, P.** see Semal-Van Gansen, P.
- Caveness, F. E. & Panzer, J. D.** Nemic galvanotaxis. *Proc. helminth. Soc. Wash.* **27** : 73–74.
- Cervenkovič, E.** see Štěpánek, M.
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- Chabaud, A. G.** see Inglis, W. G.
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- Cheng, T. C. & James, H. A. (2).** Studies on the germ cell cycle, morphogenesis and development of the cercarial stage of *Crepidostomum cornutum* (Osborn, 1903). (Trematoda : Alloeceadidae). *Trans. Amer. micr. Soc.* **79** : 75–85 3 pls.
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- Cichorius, H.-D.** Über das Auftreten freilebender Wurzelnematoden in rheinischen Böden unter besonderer Berücksichtigung der Standortverhältnisse. *Nematologica* **5** : 231-252 7 figs.
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- Clifford, C. M.** *see* Haley, A. J.
- Cloud, jr., P. E., Barnes, V. E. & Hass, W. H.** Devonian-Mississippian transition in Central Texas. *Bull. Geol. Soc. Amer.* **68** 1957 : 807-816 5 pls. [reprinted in Rep. Invest. Univ. Tex. bur. econ. Geol. **31** 1957 : 807-816].
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- Cort, W. W., Hussey, K. L. & Ameel, D. J. (3).** Seasonal fluctuations in larval trematode infections in *Stagnicola emarginata angulata* from Phragmites Flats in Douglas Lake. Proc. helminth. Soc. Wash. 27 : 11-13.
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- D'Herde, J., Brand, J. van den & Gillard, A.** Control of *Pratylenchus penetrans* (Cobb), causal agent of rootrot in lilies. *Nematologica Suppl.* **II** : 64-67 1 fig.
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- Diaz-Ungria, C.** see Jordano, D.
- Diaz-Ungria, C.** see Voge, M.
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- Dineley, D. L. & Rhodes, F. H. T.** Conodont horizons in the West and South West of England. *Geol. Mag.* **93** 1956 : 242-248 figs.
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- Dobbin, J. E.** see Teixeira de Freitas, J. F.
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- Dollfus, R. P. (1).** Cestodes et Acanthocephale d'oiseaux récoltés au Pérou par le Dr. Jean Dorst. *Bull. Soc. zool. Fr.* **84** 1959 [1960] : 384-395 13 figs.
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- Dollfus, R. P. (10).** Groupement des espèces dans la sous-famille *Opisthioglyphina* R. Ph. Dollfus, 1949. in *Libro homenaje al Dr. Eduardo Caballero y Caballero, Jubileo 1930-1960*. Mexico, D.F. (Instituto Politécnico Nacional) : 113-117.
- Dollfus, R. P. (11).** Sur trois Helminthes (Distomien, Tétrarhynque, Palaeacanthocephale) d'un *Melanoglaea ventralis* K. Barnard 1941, poisson téléostéen. *Bull. Inst. franç. Afr. noire* **22A** : 385-394 6 figs.
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- Douvres, F. W. (2).** Influence of intestinal extracts and sera from cattle infected with *Oesophagostomum radiatum* on the *in vitro* cultivation of this nematode: preliminary report. *J. Parasit.* **46** 5 Sect. 2 : 25-26. [Abstract].
- Douvres, F. W.** *see* Diamond, L. S.
- Douvres, F. W.** *see* Lucker, J. T.
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- Dusaric, D.** *see* Mandlowitz, S.
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- Edeson, J. F. B.** *see* Ramachandran, C. P.
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- Ellenby, C. & Gilbert, A. B. (1).** Progress in the study of the physiology of the hatching factor of the potato root eelworm, *Heterodera rostochiensis* Wollenweber. *Nematologica Suppl.* **11** : 106-111 4 figs.
- Ellenby, C. & Gilbert, A. B. (2).** A convenient modification of the dilution hatching trial for the potato-root eelworm, *Heterodera rostochiensis* Wollenweber. *J. Helminth.* **34** : 99-102 1 fig. 1 pl.
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- Ellison, jr., S. P.** *see* Ladd, H. S.
- Engel, H.** *see* Dresscher, T. G. N.
- Ennor, A. H.** *see* Rosenberg, H.
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- Ergens, R. (1).** *Skrjabillanus* Schigin et Schigina 1958, eine neue Gattung der Nematoden (Camallanata Chitwood 1936) für die Tschechoslowakei. *Mém. Soc. zool. tchécosl.* **24** : 230-231 2 figs. [German summary].
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- Erhardová, B., Lull, M., Prokopič, J., & Ryšavý, B.** K voprosu izučeniya gelmintofauny domaŭnykh zivotnykh v Albanii. *Česk. Parasit.* **7** : 99-114 6 figs. [German summary].
- Erickson, H. R.** *see* Swanson, G. A.
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- Etges, F. J. (1).** On the life history of *Prosthodendrium (Acanthatrium) anaplocami* n. sp. (Trematoda : Lecithodendriidae). *J. Parasit.* **46** : 235-240 1 pl.
- Etges, F. J. (2).** The status of the genera *Acanthatrium* Faust, 1919, and *Prosthodendrium* Dollfus, 1931 (Trematoda : Lecithodendriidae). *J. Parasit.* **46** : 525-527 8 figs.
- Etges, F. J. & Sharma, M. L.** Studies on the genus *Metorchis* Looss, 1899 (Trematoda : Opisthorchiidae). *J. Parasit.* **46** 5 Sect. 2 : 21. [Abstract].
- Etges, F. J.** *see* Fay, C. M.
- Ethington, R. L. (1).** Conodonts of the Ordovician Galena formation. *J. Paleont.* **33** 1959 : 257-292 3 pls. figs.
- Ethington, R. L. (2).** *Rhynchognathodus*, new name for the Ordovician conodont *Rhynchognathus*, preoccupied. *J. Paleont.* **33** 1959 : 1128.
- Ethington, R. L. & Furnish, W. M. (1).** Ordovician conodonts from Northern Manitoba. *J. Paleont.* **33** 1959 : 540-546 1 pl. fig.
- Ethington, R. L. & Furnish, W. M. (2).** Upper Ordovician conodonts from southern Manitoba. *J. Paleont.* **34** : 265-274 1 pl.
- Ethington, R. L., Furnish, W. M. & Markewicz, F. J.** Ordovician conodonts in New Jersey. *J. Paleont.* **32** 1958 : 763-765 1 fig.
- Euzet, L. & Raibaut, A.** Le développement post-larvaire de *Squalonchocotyle torpedinis* (Price 1942) (Monogenea, Hexabothriidae). *Bull. Soc. neuchatel. Sci. nat.* **83** : 101-108 6 figs.
- Euzet, L. & Trilles, J.-P. (1).** *Ocotolabea turchinii* n. g. n. sp. (Plectanocotylidae) un monogène nouveau, parasite de *Pristhedion cataphractum* (L.). *Ann. Parasit. hum. comp.* **35** : 504-508 3 figs.
- Euzet, L. & Trilles, J.-P. (2).** Sur deux monogènes nouveaux de *Sphyrna sphyraena* (L.) (Teleostei Sphyraenidae). *Bull. Soc. Zool. Fr.* **85** : 189-198 9 figs.
- Euzet, L. & Williams, H. H.** A re-description of the trematode *Calicotyle stossichii* Braun, 1899, with an account of *Calicotyle palombi* sp. nov. *Parasitology* **50** : 21-30 11 figs.
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- Everard, C. O. R.** The salinity tolerance of *Panagrolaimus rigidus* (Schneider, 1866), Thorne, 1937, and *Panagrolaimus salinus* Everard, 1958. (Nematoda : Panagrolaiminae. *Ann. Mag. nat. Hist.* (13) **1** : 53-59 2 figs.
- Ewert, A. & Olson, L. J.** Immunological tolerance studies with mice and *Trichinella*. *J. Parasit.* **46** : 849-854.
- Ewert, A.** *see* Olsen, L. J.
- Facey, R. V. & Marsden, P. H.** Fascioliasis in man : an outbreak in Hampshire. *Brit. med. J.* No. 5199 : 619-625.
- Fagasiński, A. & Piusiński, W.** Infestation of *Tetrathyridium elongatum* (Blumberg, 1882) in a dog. *Wiad. Parazyt. Wrocław* **6** : 533-536. [English summary].
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- Fauvel, P.** Note sur les Sabellariidae des Côtes Occidentales de l'Afrique. *Mém. Soc. nat. Sci. Cherbourg* **48** 1959 : 19-31.
- Fay, C. M. & Etges, F. J.** Preliminary studies on the ecology of *Leidyema appendiculata* (Leidy, 1850) Nematoda : Oxyuroidea). *J. Parasit.* **46** 5 Sect. 2 : 26. [Abstract].
- Fay, R. O.** Generic and subgeneric homonyms of conodonts. *J. Paleont.* **33** 1959 : 195-196.
- Fernando, C. H.** *see* Dissanaik, A. S.

- Ferreira, E. G. & Gomes, J. A.** Bilharziose o foco de Malanje (Angola). (Subsidio para o conhecimento das bilharzioses em Angola). An. Inst. Med. trop. Lisbon 16 1959 : 407-432. [English and French summaries].
- Fiala, L.** See Sládeček, V.
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- Frandsen, J. C. & Grundmann, A. W. (2).** The parasites of some amphibians of Utah. J. Parasit. 46 : 678.
- Frandsen, J. C.** See Grundmann, A. W.
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- Fritts, D. H.** See Marquardt, W. C.
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- Froyd, G. (2).** The incidence of liver flukes (*Fasciola gigantica*) and hydatid cysts (*Echinococcus granulosus*) in Kenya cattle. J. Parasit. 46 : 659-662.
- Fukul, T.** A short preliminary note on parasites of the North Pacific salmonoid fishes. in Libro homenaje al Dr. Eduardo Caballero y Caballero 1930-1960. Mexico, D.F. (Instituto Politécnico Nacional) : 521-522.
- Furmaga, S.** See Bezubik, B.
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- Furnish, W. M.** See Stone, G. L.
- Gabriel, A.** See Lender, T.
- Gadea, E. (1).** Contribución al estudio de los Nematodos marinos. Nematodos algícolas de la costas mediterráneas de España. Publ. Inst. Biol. apl. Barcelona 31 : 33-91 8 figs. [English summary].
- Gadea, E. (2).** Estudio comparativo de la nematofauna de las algas litorales de las costas mediterránea y atlántica de España. Bol. Soc. españ. Hist. nat. Secc. Biol. 58 : 275-282. [English summary].
- Gaffney, T.** See Rosenberg, H.
- Gagarin, V. G.** Helminths of wild ruminants of Kirgizia. Izv. Akad. Nauk. Kirgiz. S.S.R. (Biol.) 1 : 1959 133-145. [In Russian].
- Gagarin, V. G., Ablasov, N. A. & Solovyev, G. V.** Infection of sheep in Kirgizia with Anoplocephalids. Izv. Akad. Nauk. Kirgiz. S.S.R. (Biol.) 1 1959 : 111-131. [In Russian].
- Gagarin, V. G. & Steshenko, V. M.** On the role of protostongylids in ethiology of the lung diseases in sheep and goat. Izv. Akad. Nauk. Kirgiz. S.S.R. 1 1959 : 145-158 10 figs. [In Russian].
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- Galliard, R.** Filaires nouvelles du type *bancrofti-malayi* chez l'homme et l'animal dans l'Afrique Orientale-Océan Indien. Bull. Soc. Path. exot. 52 : 578-582 1 fig.
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- Gardiner, J. L., Chitwood, M., Farr, M. M. & Short, D. A.** Historical resumé of the Helminthological Society of Washington. Proc. helminth. Soc. Wash. 27 : 241-259.

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- Gayot, G.** see Callot, J. V.
- George, C. J.** The affinities and evolution of the major triploblastic phyla of animals. *J. Anim. Morph. Physiol.* **7** : 9-14.
- Gerlach, S. A.** Neues Meeres-Nematoden aus dem Supralitoral der deutschen Küsten. *Int. Rev. ges. Hydrobiol.* **44** 1959 : 463-467 4 figs.
- Getsova, A. B., Timofeeva-Resovskaya, E. A. & Timofeev-Resovskii, N. V.** Effect of ethylenediaminetetracetate on the accumulation of different radioisotopes from an aqueous solution, by leeches and gnats. *Dokl. Akad. Nauk S.S.S.R. (Transl.) Biol. Sci.* **130** : 53-54 2 figs. [*Dokl. Akad. Nauk S.S.S.R.* **130** : 440-442].
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- Gillard, A.** see D'Herde, J.
- Gilles, H. M.** see McGregor, I. A.
- Gilmore, R. G. & Allen, R. W.** Helminth parasites of pronghorn antelope (*Antilocapra americana*) in New Mexico with new host records. *Proc. helminth. Soc. Wash.* **27** : 69-73.
- Gjini, N.** see Erhardová, B.
- Glaessner, M. F.** Precambrian fossils from South Australia. *Rep. 21st Internat. Geol. Cong.* **22** : 59-64.
- Glaessner, M. F. & Daily, B.** The geology and late Precambrian fauna of the Ediacara Fossil Reserve. *Rec. S. Aust. Mus.* **13** 1959 : 369-401 6 pls., 2 figs.
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- Goffart, H. (1).** Die Kutikularstruktur des Hinterendes bei der Gattung *Heterodera* als Artcharakteristikum. *Verh. dtsch. zool. Ges.* **1959** [1960] : 387-393 6 figs.
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- Gomes, J. A.** see Ferreira, E. G.
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- Gontcharoff, M.** Le développement post-embryonnaire et la croissance chez *Lineus ruber* et *Lineus viridis* (Nemertes Lineidae). *Ann. Sci. nat. (Zool.)* (12) **2** : 225-279.
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- Goodey, J. B. (3).** Observations on the effects of the parasitic nematodes *Ditylenchus myceliophagus*, *Aphelenchoides composticola* and *Paraphelenchus myceliophthorus* on the growth and cropping of mushrooms. *Ann. appl. Biol.* **48** : 655-664 22 figs.
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- Grundmann, A. W. & Frandsen, J. C. (2).** *Capillaria bonnevillae*, n. sp. (Nematoda : Trichuridae) from the Ord kangaroo rat in Utah. *Proc. helminth. Soc. Wash.* **27** : 206-208 4 figs.
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- Guaña, E. F.** Quetognatos presentes en muestras antárticas y subantárticas. *Rev. Biol. mar.* **9** 1959 : 251-255.
- Guérin, R.** Observations ecologiques sur *Convolvulus roscoffensis* Graff. *Cah. Biol. mar.* **1** : 205-220 7 figs.
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- Guevara, D.** see Monteoliva, M.
- Guilhon, J.** Rôle des Limacides dans le cycle évolutif d'*Angiostrongylus vasorum* (Bailliet, 1866). *C.R. Acad. Sci. Paris* **251** : 2252-2253.
- Guth, S. (1).** Helminthofauna der Edelstirsche des Tatra-Nationalparks. *Biologia, Bratislava* **15** : 366-370. [German summary].
- Guth, S. (2).** Helminthofauna des Alpensteinbocks (*Capra ibex* L.) und der Bezoaziege (*Capra aegagrus* Gm.) aus dem Tatra-nationalpark. *Biologia, Bratislava* **15** : 421-426 1 fig. [German summary].
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- Güralp, N.** see Mimioglu, M.
- Guschanskaja, L. H.** see Skryabin, K. I.
- Gussev, A. V. & Strelkow, J. A.** *Ancylostoides* (Monogenoidea) of far-east sheat fishes (*Silurus* and *Parasilurus*). *Trav. Inst. zool. Acad. Sci. U.R.S.S.* **28** : 197-255 29 figs. [English summary].
- Gustave, G., Laugier, R. & Lessertisseur, J.** Sur un *Problematium* du Lias inférieur de la Haute-Marne : *Siphonites heberti* de Sap. *Bull. Soc. géol. Fr.* (6) **6** 1957 : 997-1000 figs.
- Gvozdev, E. V. (1).** On *Pegosomum ixobrychi* parasitizing in the liver of *Ixobrychus minutus*. *Trud. Inst. Zool. Almz-Ata* **14** : 54-56 fig. [In Russian].
- Gvozdev, E. V. (2).** Helminths of ondatra in Kazakhstan. *Trud. Inst. Zool. Alma-Ata* **14** : 57-60. [In Russian].

Gvozdev, E. V. & Agapova, A. I. On the formation of the present fauna of fish parasites in Balkhash-Iliisk basin. Trud. Inst. Zool. Alma-Ata 12 : 183-191. [In Russian].

Haderlie, E. C. see Clark, R. B.

Hadzi, J. Über die Abstammung und die Verwandtschaftsverhältnisse der Chaetognathen. Razpr. Slov. Akad. Znan. Umjetn. 5 1959 : 105-139. [German summary].

Haffner, K. von. Untersuchungen und Gedanken über das Gehirn und Kopfende von Polychaeten und ein Vergleich mit den Arthropoden. Mitt. hamburg. zool. Mus. Inst. 57 1959 : 1-29 20 figs.

Hague, N. G. M. Control of plant parasitic nematodes. 3. The final eelworm density in soil as a means of assessing the efficacy of a fumigant. Nematologica Suppl. II : 13-21 2 figs.

Hague, N. G. see Warner, L. J.

Hahn, S. S., Kang, H. Y. & Hahn, Y. S. The anthelmintic effect of biphenium hydroxynaphthoate on intestinal helminths. J. trop. Med. Hyg. 63 : 180-184.

Hahn, Y. S. see Hahn, S. S.

Haley, A. J. & Clifford, C. M. Age and infectivity of the filariform larvae of the rat nematode *Nippostrongylus brasiliensis* (Travassos, 1914). J. Parasit. 46 : 579-582 1 fig.

Haley, A. J. see Parker, J. C.

Hall, J. E. (1). Some lecitodendriid metacercariae from Indiana and Michigan. J. Parasit. 46 : 309-316 1 pl.

Hall, J. E. (2). Studies on virgulate Xiphidocercariae from Indiana and Michigan. Amer. midl. Nat. 63 : 226-245 36 figs.

Haller, W. Über die Einstufung der marinen Unterkreide der Bohrung Babekuhl. Ber. geol. Ges. 2 1957 : 130-137 5 pls.

Hanks, J. E. A method for preparing the marine polychaete, *Pectinaria gouldi* (Verrill), for histological study. Trans. Amer. micr. Soc. 79 : 470-471.

Hansen, E. L. see Nicholas, W. L.

Hansen, G. L., Yarwood, E. A. & others. Differential nutritional requirements for reproduction of two strains of *Caenorhabditis elegans* in axenic culture. Nematologica 5 : 27-31.

Hansen, M. F. see Wood, I. B.

Hanumantha-Rao, K. The problem of Mehlis's gland in helminths with special reference to *Penetrocephalus ganapati* (Cestoda : Pseudophyllidea). Parasitology 50 : 349-350.

Harinasuta, C. & Vajrasthira, S. Opisthorchiasis in Thailand. Ann. trop. Med. Parasit. 54 : 100-105 1 pl.

Harinasuta, C. see Vajrasthira, S.

Harkema, R. see Miller, G. C.

Harms, C. E. Some parasites of catfishes from Kansas. J. Parasit. 46 : 695-701.

Harris, L. G. see Dougherty, E. C.

Hartman, O. (1). On account of the nereid worm *Neanthes diversicolor*, new combination in the Caspian Sea and its more extensive distribution. Zool. Zh. 39 : 35-39 7 figs. [English summary].

Hartman, O. (2). Systematic account of some marine invertebrate animals from the deep basins of southern California. Part II. Allan Hancock Pacif. Exped. 22 : 69-215 19 pls.

Hartman, O. & Barnard, J. L. The benthic fauna of deep basins off southern California : continued studies in the seaward and deeper basins. Allan Hancock Pacif. Exped. 22 : 217-297 map.

Hartmann-Schröder, G. Polychaeten aus dem Roten Meer. Kieler Meeresforsch. 16 : 69-125 21 pls.

Hartog, C. den & Tulp, A. S. Hydrobiologische waarnemingen in Friesland. Levende Nat. 63 : 109-120 7 figs.

Hasan, R. & Qasim, S. Z. The occurrence of *Pallistis basiri* Farooqi (Acanthocephala) in the liver of *Trichogaster chuna* (Ham.). Z. Parasit. 20 : 152-156 1 fig.

Hasan, S. A. Some polychaetes from the Karachi coast. Ann. Mag. nat. Hist. (13) 3 : 103-112 2 figs.

Hashimoto, Y. & Okaichi, T. Some chemical properties of nereistoxin. Ann. N.Y. Acad. Sci. 90 : 667-673 3 figs.

Hass, W. H. (1). Upper Devonian conodonts of New York, Pennsylvania and interior States. J. Paleont. 32 1958 : 765-769.

Hass, W. H. (2). Conodonts from the Chappel Limestone of Texas. Prof. Pap. U.S. geol. Surv. 294-J 1959 : 365-399 5 pls.

Hass, W. H. see Cloud, jr., P. E.

Hatai, K. Interesting sand-pipes from the Miocene Toyoda Formation, Yamagata Prefecture, Japan. Trans. paleont. Soc. Japan 27 1957 : 95-98 figs.

Hauenschild, C. Obligatorische Parthenogenese bei dem Polychaeten *Grubea pusilla*. Naturwissenschaften 42 1955 : 611-612.

Hauser, J. & Maurmann, E. Studien über die Bewegungen des genus *Geoplanea*. Pequisas (B. Cienc. nat.) No. 3 1959 : 631-646 7 figs.

Helms, J. (1). Die Conodonten-Gattungen *Polygnathus* und *Palmatolepis* im höheren Oberdevon. Paläont. Z. 34 : 12.

Helms, J. (2). Conodonten aus dem Saalfelder Oberdevon (Thüringen). Geologie 8 1959 : 634-677 6 pls. figs.

Hempel, C. Über das Festsetzen der Larven und die Bohrtätigkeit der Jugendstadien von *Polydora ciliata* (Polychaeta Sedentaria). Helgoländ. wiss. Meeresunters. 7 : 80-92 2 figs.

Herlant-Meewis, H. Evolution des caractères sexuels au cours de la croissance et de la reproduction chez *Eisenia foetida*. Ann. Soc. zool. Belg. 89 1958-59 [1960] : 281-336 14 figs. 4 pls.

Herlich, H. Age resistance of cattle to nematodes of the gastrointestinal tract. J. Parasit. 46 : 392-397.

Hesling, J. J. Laboratory note. a. An alternative method of handling nematodes. b. A technique for transferring delicate specimens to mountant. c. Bubble "dissection" of immature *Heterodera* cysts. Nematologica 5 : 322.

Hesling, J. J. & Wallace, H. R. Susceptibility of varieties of chrysanthemum to infestation by *Aphelenchoides ritzema-bosi* (Schwartz). Nematologica 5 : 297-302 2 figs. 2 tables.

- Heyligers, P. C.** Soil fauna of the osier beds of Brabantse Biesbosch. Arch. neerl. Zool. **13** : 620-623.
- Heyneman, D.** On the origin of complex life cycles in the digenetic flukes. in Libro homenaje al Dr. Eduardo Caballero y Caballero, Jubileo 1930-1960. Mexico, D.F. (Instituto Politecnico Nacional) : 133-152 10 figs.
- Heyneman, D.** see Gambino, J. J.
- Heynemann, D.** see Voge, M.
- Hendrix, J. C.** see Shumard, R. F.
- Hewitt, W. B.** see Raski, D. J.
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- Hidalgo-Escalante, E.** see Flores-Barroeta, L.
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- Hoffmann, J.** A propos d'une "maladie de captivité" des Cystobranches. Arch. Inst. Grand-Duc. Luxemb. N.S. **26** 1959 : 237-243 4 figs.
- Hoffman, J.** see Pawlowski, L. K.
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- Holm-Hansen, O.** see Nicholas, W. L.
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- Homez, J.** see Diaz Ungria, C.
- Hopper, B. E.** Contributions to the knowledge of the genus *Meloidodera* (Nematoda : Tylenchida), with a description of *M. charis* n. sp. Canad. J. Zool. **38** : 939-947 5 figs.
- Howell, B. F. (1).** Type species for the Nemertan worm genus, *Legnadesmus*. J. Paleont. **32** 1958 : 247.
- Howell, B. F. (2).** Three notes on Silurian worm genera. J. Paleont. **33** 1959 : 487.
- Hrabá, S.** Oligochaeta limicola from the collection of Dr. S. Husmann. Spisy Prif. Fak. Univ. Brne No. **415** : 245-277 27 figs.
- Hsien-chen, H. (1).** Experimental transmission of *Cysticercus cellulosae* in Taiwan monkey, *Macacus cyclops* (Swinhoe, 1862). Formosan Sci. **14** : 66-80 2 pls.
- Hsien-chen, H. (2).** Studies on the epidemiology of *Fasciolopsis buski* in South Taiwan. Formosan Sci. **14** : 95-120 14 figs. 3 maps.
- Hsü, H. F. & Li Hsü, S. Y.** The infectivity of four geographic strains of *Schistosoma japonicum* in the rhesus monkey. J. Parasit. **46** : 228.
- Hsü, H. F., Li Hsü, S. Y. & Tsai, C. T.** Further studies on the prepatent periods of four geographic strains of *Schistosoma japonicum*. in Libro homenaje al Dr. Eduardo Caballero y Caballero, Jubileo 1930-1960. Mexico, D.F. (Instituto Politecnico Nacional) : 153-160.
- Hsü, H. F.** see Li Hsü, S. Y.
- Hsü, W.-n.** Notes on some parasitic nematodes obtained from vertebrates in Nanking. Acta zool. sinica **12** : 101-113 6 pls. [English summary].
- Hubbard, E. D.** see Zimmermann, W. J.
- Huckriede, R.** Die Conodonten der mediterranen Trias und ihr stratigraphischer Wert. Paläont. Z. **32** 1958 : 141-175 5 pls.
- Hunter, G. W., III (1).** The use of anticoagulants and chlorobutanol for the recovery of adult schistosomes from mice. J. Parasit. **44** : 206.
- Hunter, G. W., III (2).** Studies on schistosomiasis. XIII. Schistosoma dermatitis in Colorado. J. Parasit. **46** : 231-234.
- Hunter, G. W., III & Birkenholz, D. E.** Notes on larval trematodes from snails collected on Gunnison County, Colorado. J. Parasit. **46** 5 Sect. 2 : 36-37. [Abstract].
- Hunter, G. W., III & Weinmann, C. J.** Studies on schistosomiasis. XVI. Non-reciprocal acquired resistance between *Schistosoma mansoni* and *Schistosomatium douthitti*. J. Parasit. **46** 5 : 34. [Abstract].
- Hunter, W. S. & Vernberg, W. B.** Preliminary studies on the life history of *Cardiocephalus brandesi* Szidat, 1928 (Trematoda : Strigeidae). J. Parasit. **46** : 797-799 1 fig.
- Hunter, W. S.** see Wells, M. J.
- Hurková, J.** A contribution to the knowledge of bat trematodes in Czechoslovakia. Acta Univ. carol. Praha. Biol. **1959** 1959 : 29-36 4 figs.
- Husmann, S.** Untersuchungen über die Sandlückenfauna der bremischen Langsamfilter. Abh. braunsch. wiss. Ges. **10** 1958 : 93-116 11 figs.
- Hussey, K. L.** see Cort, W. W.
- Hutchinson, M. T. & Streu, H. T.** Tardigrades attacking nematodes. Nematologica **5** : 149 1 fig.
- Hutton, R. F. & Sogandares-Bernal, F. (1).** A list of parasites from marine and coastal animals of Florida. Trans. Amer. micr. Soc. **79** : 287-292.
- Hutton, R. F. & Sogandares-Bernal, F. (2).** Studies on helminth parasites from the coast of Florida. II. Digenetic trematodes from the shore birds of the West coast of Florida. 1. Bull. mar. Sci. Gulf & Caribbean **10** : 40-54 2 figs.
- Hutton, R. F. & Sogandares-Bernal, F. (3).** Preliminary notes on the life-history of *Mesostephanus appendiculatoides* (Price, 1934) Lutz, 1935. Bull. mar. Sci. Gulf & Caribbean **10** : 234-236 1 fig.
- Hutton, R. F.** see Sogandares-Bernal, F.
- Hwang, J. C.** Effects of pH, various proteolytic enzymes, amino acids and other substances on the eggs and larvae of *Ascaridia galli*. J. Parasit. **46** 5 Sect. 2 : 27. [Abstract].
- Hwang, J. C. & Wehr, E. E.** Occurrence of *Capillaria obsignata* Madsen, 1945, in peafowl, with a note on the systematic relationship to some other species of *Capillaria* in domestic birds. in Libro homenaje al Dr. Eduardo Caballero y Caballero, Jubileo 1930-1960. Mexico, D.F. (Instituto Politecnico Nacional) : 475-479 7 figs.
- Hyman, L. H. (1).** Second report on Hawaiian polyclads. Pacif. Sci. **14** : 308-309.
- Hyman, L. H. (2).** New and unknown umagillid rhabdocoels from echinoderms. Amer. Mus. Novit. No. **1984** : 1-14 13 figs.

- Iksanov, K. I.** On the intermediate hosts and the development of parasite worms in fishes of Issik-Kul. Izv. Akad. Nauk Kirgiz. S.S.R. (Biol.) 1 1959 : 169-173. [In Russian].
- Iles, C.** The larval trematodes of certain fresh-water molluscs. II. Experimental studies on the life-cycle of two species of furcocercariae. Parasitology 50 : 401-418 1 pl.
- Imajina, M.** Description of a new polychaete, *Nothria shirkiskinaensis* n. sp. of the family Eunicidae. Publ. Seto mar. biol. Lab. 8 : 55-58 14 figs.
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- Inase, M. (2).** The culture solution of the eggs of *Tubifex*. Sci. Rep. Tôhoku Univ. (4) Biol. 36 : 65-67.
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- Inglis, W. G. & Diaz-Ungria, C.** Una revisión del género *Trypanoxyuris* (Ascaridina : Oxyuridae). Mem. Soc. Cienc. nat. La Salle 19 54 1959 : 176-212 38 figs. [English summary].
- Inoue, I.** Studies on the life history of *Chordodes japonensis*, a species of Gordiacea. II. On the manner of entry into the aquatic insect-larvae of *Chordodes* larvae. Annot. zool. jap. 33 : 132-141 7 figs.
- Iordăchescu, D.** Observations à propos de quelques Nématodes parasites des oiseaux indigènes. Trav. Mus. Hist. nat. "Gr. Antipa" 1 19157 : 245-253 4 pls.
- Izjumova, N. A.** About formation of parasite fauna of fishes in Rybinsk Reservoir. Byull. Inst. Biol. Vodochr. No. 3 1959 : 38-40. [In Russian].
- Itagaki, H.** The relation between the prevalence of fascioliasis and the distribution of the snail intermediate host of the life-fluke. Bull. biogeogr. Soc. Japan 20 1959 : 29-32.
- Ivleva, I. V.** Respiration of the white Enchytraeid worm (*Enchytraeus albidus* Henle). Zool. Zh. 39 : 165-175 6 figs. [English summary].
- Iwata, F.** The life history of the Nemertea. Bull. Mar. biol. Sta. Asamushi 10 : 95-97 6 figs.
- Izjumova, N. A. (1).** Die Parasitenfauna der einsommerigen Wildkarpfen der Suskanbucht des Kujbyshev-Stausees. Byull. Inst. Biol. Vodochr. No. 3 1959 : 36-37. [In Russian].
- Izjumova, N. A. (2).** Seasonal distribution of fish parasites in Rybinsk Reservoir. Trud. Inst. Biol. Vodochr. No. 3 (6) : 283-300. [In Russian].
- Jackson, G. J.** Fluorescent antibody studies of *Nippostrongylus muris* infections. J. infect. Dis. 106 : 20-36 28 figs.
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- Jain, G. P. (1).** On the genus *Artyfechinostomum* (Lane, 1915) (Echinostomatidae : Trematoda). Parasitology 50 : 1-5.
- Jain, G. P. (2).** Further observations on *Artyfechinostomum mehrri* (Faruqui) (Echinostomatidae : Trematoda). Parasitology 50 : 7-11 6 figs.
- Jain, S. L.** Monogenea [sic] of Indian freshwater fishes. XII. New dactylogyrid trematodes from the gill filaments of Cyprinidae and Gobiidae hosts. in Libro homenaje al Dr. Eduardo Caballero y Caballero, Jubileo 1930-1960. Mexico, D.F. (Instituto Politécnico Nacional) : 161-171 19 figs.
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- Jarrett, W. F. H., Jennings, F. W., McIntyre, W. I. M., Mulligan, W. & Urquhart, G. M.** Immunological studies on *Dictyocaulus viviparus* infection. Immunity produced by the administration of irradiated larvae. Immunology 3 : 145-151 6 figs.
- Jarrett, W. F. H., Jennings, F. W., McIntyre, W. I. M., Mulligan, W. & Urquhart, G. M.** Immunological studies on *Dictyocaulus viviparus* infection. Active immunization with whole worm vaccine. Immunology 3 : 135-144 5 figs.
- Jarry, D. (1).** Notes biologiques sur les Hirudinées I. Les fluctuations dans l'espèce *Erpobdella octoculata* (L.). Bull. Soc. zool. Fr. 84 1959 [1960] : 371-380 4 figs.
- Jarry, D. (2).** Notes sur les Hirudinées (suite). II. Sur la présence d'*Hirudo michaelsoni* Augener 1936 au Borkou. Bull. Soc. zool. Fr. 84 1959 [1960] : 380-382 1 fig.
- Jarry, D. (3).** Notes sur les Hirudinées (suite). III. A propos de Pontobdellées récoltées sur *Raja batia* L. à Sète. Bull. Soc. zool. Fr. 84 1959 [1960] : 382-384 1 fig.
- Jarry, D. (4).** Une curieuse coaction de parasitisme : l'association entre *Glossiphonia complanata* et *Erpobdella octoculata*. Terre et la Vie 107 : 51-55 1 fig.
- Jarry, D. (5).** *Piscicola haranti* n. sp. (Hirudinea). Ann. Parasit. hum. comp. 35 : 305-315 4 figs.
- Jaskoski, B. J.** Amino acids in *Ascaris suum* eggs. J. Parasit. 46 5 Sect. 2 : 27. [Abstract].
- Jenkins, W. R.** *Paratylenchus marylandicus*, n. sp. (Nematoda : Criconematidae) associated with roots of pine. Nematologica 5 : 175-177 1 fig.
- Jenkins, W. R. see** Davis, R. A.
- Jennings, F. W. see** Jarrett, W. F. H.

- Jennings, T. V.** Faunal zonation of the Minnelusa Formation, Black Hills, South Dakota. *J. Paleont.* **33** 1959 : 986-1000 1 pl. figs.
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- Johri, G. H. (1).** A new paruterinid cestode, *Lallum magniparuterina* gen. et sp. nov. from the intestine of a common teal, *Nettion crecca* Linn. *Parasitology* **50** : 269-272 4 figs.
- Johri, G. N. (2).** Studies on some cestode parasites. V. Two new species of cestodes belonging to the family Hymenolepididae Fuhrmann, 1907. *J. Parasit.* **46** : 251-252 2 pls.
- Jollès, P. & Zuili, S.** Purification et étude comparée de nouveaux lysozymes ; extraits du poumon de poule et de *Nephthys hombergi*. *Biochem. & Biophys. Acta* **39** : 212-217 4 figs.
- Jones, A. W., Segarra, J. M. & Wyant, K. D.** Growth and hatching of taeniid eggs. *J. Parasit.* **46** : 170-174 1 fig.
- Jones, F. G. W.** Plant parasitic nematodes. *Adv. Sci.* **17** : 174-180 7 figs.
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- Jordano, D. & Diaz-Ungria, C.** *Craspedocotyla margaritensis* nov. gen. nov. sp. (Cestoda : Hymenolepididae) nueva tenia parásita del turpial (*Icterus icterus*) (Aves : Passeres). *Mem. Soc. Cienc. nat. La Salle* **20** : 198-210 8 figs. [English summary].
- Jorge da Silva, A. A. see** Teixeira de Freitas, J. F.
- Joyne, J. W.** Earthworms of the Upper Whitewater Valley (East Central Indiana). *Proc. Ind. Acad. Sci.* **69** : 313-319.
- Judd, W. W.** Observations on the habitat, food, reproduction state and intestinal parasites of the smooth green snake at London, Ontario. *Canad. Fld. Nat.* **74** : 100-106.
- Juget, J.** Recherches sur la faune aquatique de deux grottes du Jura méridional français : La grotte de la Balme (Isère) et la grotte de Corveissiat (Ain). *Ann. Spéleol.* **14** 3-4 1959 : 391-401 4 figs.
- Kadziolka, A.** Histopathological studies on the tissue test in experimental ascariidiosis of chickens. *Acta Parasit. polon.* **8** : 315-334 3 pls.
- Kagan, I. G.** Studies on the standardization of the intradermal test for bilharziasis. *J. Parasit.* **46** 5 Sect. 2 : 34. [Abstract].
- Kagan, I. G. see** Levine, D. M.
- Kämpfe, L. (1).** Über Möglichkeiten der "Physiologisch-ökologischen" Arbeitsweise in der Nematodenforschung. *Verh. dtsh. zool. Ges.* **1959** [1960] : 378-386 6 figs.
- Kämpfe, L. (2).** Die räumliche Verteilung des Primärbefalls von *Heterodera schachtii* Schmidt in den Wirtschaftszonen. *Nematologica* **5** : 18-26 4 figs.
- Kämpfe, L. (3).** Über den Wert von Schwanzform und Körpermassen für die Artdiagnose der Nematoden (dargestellt an der Gattung *Heterodera* Schm.). *Nematologica Suppl.* **II** : 112-122 6 figs.
- Kanatani, H. (1).** Studies on the formation of bipolar heads in the planarian, *Dugesia gonocephala*. II. Suppression of bipolar-head formation by potassium cyanide and anaerobis. *J. Fac. Sci. Univ. Tokyo (Zool.)* **9** : 49-58 3 figs.
- Kanatani, H. (2).** Studies on fission in the planarian, *Dugesia gonocephala*. II. Effects of colchicine and demecolcine on the occurrence of fission. *J. Fac. Sci. Univ. Tokyo (Zool.)* **9** : 59-66 1 fig.
- Kang, H. V. see** Hahn, S. S.
- Kannan, S.** Soil nematodes from Madras City. *J. zool. Soc. India* **12** : 40-50 10 figs.
- Karmanova, E. M. (1).** The life cycle of the nematode *Diectophyme renale* (Goeze, 1782). *Dokl. Akad. Nauk. S.S.S.R. (Transl.)*, *Biol. Sci.* **127** 1959 : 700-701.
- Karmanova, E. M. (2).** The life cycle of the nematode *Diectophyme renale* (Goeze, 1782), a parasite in the kidneys of carnivora and of man. *Dokl. Akad. Nauk. S.S.S.R. (Transl.)*, *Biol. Sci.* **132** : 456-457. (*Dokl. Akad. Nauk. S.S.S.R.* **132** : 1219-1220). [In Russian].
- Karppinen, E.** Ein Regenwurm mit doppeltem Hinterende. *Arch. Soc. zool. bot. fenn. Vanamo* **14** 1959 : 68-69 2 figs.
- Kassai, T. (1).** Die Synonymie des *Cystocaulus ocreatus*. *Acta vet. hung.* **7** 1957 : 157-163.
- Kassai, T. (2).** Über die geographische Verbreitung der Protostrongylidose der Schafe. *Acta Vet. hung.* **7** 1957 : 165-173 1 fig.
- Kassai, T. (3).** Larvae of protostrongylins in snails. *Acta vet. hung.* **8** 1958 : 223-236 7 figs.
- Kassai, T. (4).** Studies on the morphology of the adult *Cystocaulus ocreatus* and its preinfective larvae. *Acta vet. hung.* **8** 1958 : 349-373 19 figs.
- Kates, K. C. & Turner, J. H.** An experiment on the combined pathogenic effects of *Haemonchus contortus* and *Nematodirus spathiger* on lambs. *Proc. helminth. Soc. Wash.* **27** : 62-67.
- Kates, K. C., Turner, J. H., Lindahl, I., Whitmore, G. E. & Enzle, F. D.** Effectiveness of three management systems on parasitism in lambs. I. Clinical effects of parasitisms relative to exposure and medication. *J. Parasit.* **46** 5 Sect. 2 : 40. [Abstract].
- Kates, K. C. see** Turner, J. H.
- Katto, J.** Some problematica from the so-called unknown Mesozoic strata of the southern part of Shikoku, Japan. *Sci. Rep. Tôhoku Univ. Geol. Spec.* **4** : 323-334 2 pls.
- Katz, F. F.** The effect of irradiation on reproduction by the heterogenetic generation of *Strongyloides papillosus*. I. Irradiation of males and females. *J. Parasit.* **46** : 383-391 1 fig.
- Kawakatsu, M.** Notes on the freshwater planarians found in the subterranean waters of the Akiyoshi district. *Jap. J. Zool.* **12** : 609-620 2 figs.
- Kazlauskas, J.** On the effect of phenothiazine on the development of *Strongyliata* larvae in the external surroundings. *Acta parasit. lithuan.* **2** 1959 [1960] : 17-18.
- Keeling, J. E. D.** The effects of ultra-violet radiation on *Nippostrongylus muris*. I. Irradiation of infective larvae : lethal and sublethal effects. *Ann. trop. Med. Parasit.* **54** : 182-191 2 figs.
- Kegel, W.** Söbve vermes recentes e fósseis. *Notas Serv. geol. Brasil* **100** 1957 : 1-11 2 pls.

- Kelley, G. W.** *see* Olsen, L. S.
- Kelley, G. W., Jr.** *see* Sen, H. G.
- Kent, H. N.** Isolation of specific antigens from *Ascaris lumbricoides*. *J. Parasit.* **46** 5 Sect. 2 : 23.
- Kerneis, A.** Contribution à l'étude faunistique et écologique des herbiers de Posidonies de la région de Banyuls. *Vie et Milieu* **11** : 145-187 14 figs.
- Kershaw, W. E.** *see* Phillipson, R. F.
- Kershaw, W. E.** *see* Ramachandran, C. P.
- Kershaw, W. E.** *see* Stretch, R. G. A.
- Kewalramani, H. G., Wagh, P. V. & Ranade, M.R.** Taxonomy of the lugworm found off Bombay. *J. zool. Soc. India* **11** 1959 [1960] : 109-115 1 fig.
- Khalil, H. M.** *see* Nagaty, H. F.
- Khalil, L. F. (1).** On a new genus, *Sandonella*, for *Protocephalus sandoni* Lynsdale, 1960 (Protocephalidae) and the erection of a new subfamily, Sandonellinae. *J. Helminth.* **34** : 47-54 8 figs.
- Khalil, L. F. (2).** On a new nematode, *Nilonema gymnarchi* gen. et sp. nov. (Dracunculidae), from a freshwater fish in the Sudan. *J. Helminth.* **34** : 55-58 7 figs.
- Khan, D. (1).** Studies on larval trematodes infecting freshwater snails in London (U.K.) and some adjoining areas. Part I. Echinostome cercariae. *J. Helminth.* **34** : 277-304 21 figs.
- Khan, D. (2).** Studies on larval trematodes infecting freshwater snails in London (U.K.) and some adjoining areas. Part II. Gymnocephalous cercariae. *J. Helminth.* **34** : 305-318 14 figs.
- Kjan, M. A. (1).** Descriptions of two nematodes, *Ektaphelenchus macrostylus* n. sp., and *Laimaphelenchus ulmi* n. sp., with a key to species of *Laimaphelenchus*. *Canad. J. Zool.* **38** : 91-97 11 figs.
- Khan, M. A. (2).** *Stictylus hastatus* (Khan, 1957) n. comb., and *Stictylus unguiculatus* (Khan, 1957) n. comb. (Nematoda : Neotylenchidae). *Canad. J. Zool.* **28** : 225-226.
- [Khlebovich, V. V.] (1).** [Polychaete worms from the littoral of the Kuril Islands]. *Akad. Nauk U.S.S.R. Zool. Inst. Thesis Leningr.* 1959 : pp. 1-20.
- [Khlebovich, V. V.] (2).** [New case of rapacity in Polychaeta]. *Priroda* **9** 1959 : 118. [In Russian].
- Kido, T. & Kishida, Y.** Effect of thiourea and iodine on the depigmentation of planarian eye. *Annot. zool. jap.* **33** : 24-32 6 figs.
- King, R. E.** *see* Noble, E. R.
- Kinnamon, K. E.** *see* Rothstein, N.
- Kirk, D. E.** *see* Goodchild, C. G.
- Kiseleva, M. I. (1)** [Distribution of the polychaete larvae in plankton of Black Sea]. *Trav. Sta. biol. Sebastopol.* **12** 1959 : 160-167 7 figs. [In Russian].
- Kiseleva, M. I. (2).** [Influence of Aral and Black Sea brackish waters on *Nereis succinea*]. *Trav. Sta. biol. Sebastopol.* **13** : 114-118 2 figs. [In Russian].
- Kishida, Y. (1).** Depigmentation of the planarian eye in a solution of thiourea containing an oxidising agent. *Zool. Mag., Tokyo* **69** : 190-194. [English summary].
- Kishida, Y. (2).** Depigmentation of the planarian eye treated with salts of dithiocarbamide. *Zool. Mag., Tokyo* **69** : 332-335. [English summary].
- Kishida, Y.** *see* Kido, T.
- Kisielewska, K. (1).** Life cycle of the tapeworm *Pseudodiorchis prolifer* (Villot, 1890) comb. nov. (= *Pseudodiorchis multispinosa* Zarnowski, 1955). *Acta Parasit. polon.* **8** : 197-204 2 figs.
- Kisielewska, K. K. (2).** The life cycle of *Soricinia diaphana* (Cholodkovsky, 1906) Zarnowski, 1955 (Hymenolepididae). *Bull. Acad. polon. Sci. Sér. Sci. biol.* **8** : 219-222 5 figs.
- Kitamori, R. (1).** Two new species of Cirratulid and Nephthyridae (Annelida : Polychaeta). *Bull. jap. Soc. Sci. Fish.* **26** : 1082-1085 2 figs.
- Kitamori, R. (2).** Description of two new species of Pilargiidae (Annelida : Polychaeta) from the Seto-Inland-Sea. *Bull. jap. Soc. Sci. Fish.* **26** : 1086-1090 2 figs.
- Klapper, G.** An Upper Devonian conodont fauna from the Darby formation of the Wind River Mountains, Wyoming. *J. Paleont.* **32** 1958 : 1082-1093 2 pls. fig.
- Kleijburg, P.** Soil sample examination as a basis for advisory work against stem eelworms *Ditylenchus dipsaci* (Kühn). *Nematologica Suppl.* **II** : 22-27 2 figs.
- Klement, V.** Zur Rotatorienfauna ephemerer Gewässer. *Jh. Ver. vaterl. Naturk. Württemb.* **115** : 338-349 16 figs.
- Kloss, G. R.** *see* Travassos, L.
- Klots, A. B.** A terrestrial flatworm well established outdoors in the northeastern United States. *Syst. Zool.* **9** : 33-34.
- Knox, G. A.** The polychaete annelids of New Zealand. Part I. Glyceridae. *Rec. Canterbury (N.Z.) Mus.* **7** : 219-232 27 figs.
- Kobulej, T.** Über die parasitische Phase der post-embryonalen Entwicklung von *Amidostomum anseris* (Zeder, 1800). *Acta vet. hung.* **9** 1959 : 243-260 10 figs.
- Kockel, F.** Conodonten aus dem Paläozoikum von Málaga (Spanien). *Neues Jb. Geol. Paläont. B* **1958** : 255-262 fig.
- Kol, E. & Varga, L.** Beiträge zur Kenntnis der Mikroflora und Mikrofauna in den Donauarmen neben Baja (Südungarn). *Acta Biol. Acad. Sci. hung.* **11** : 187-217 21 figs. [English, Russian summaries].
- Kolesnikova, M. N.** Parasites of economic fishes of the Lakes Kara-Rim in the Kzyl-Ordin Province. *Trud. Inst. Zool. Alma-Ata* **14** : 128-129. [In Russian].
- Kollmannsperger, F.** Terricole Oligochaeten in der Gebirgswüste des Ennedi im Nord Tschadgebiet, eine tiergeographische Untersuchung. *Verh. dtsh. zool. Ges.* 1959 [1960] : 374-377 2 figs.
- Kolmayer, S. & Stéphan-Dubois, F.** Néoblastes et limitation du pouvoir de régénération céphalique chez la planaire *Dendrocoelum lacteum*. *J. Embryol. exp. Morph.* **8** : 376-386 6 figs. 2 pls.
- Kolmayer, S.** *see* Stéphan-Dubois, F.
- Kopaev, Y. N.** *see* Spasskaya, L. P.
- Korathra, K. J. (1).** Studies on host-specificity and host-parasite zoogeography and phylogeny. II. Monogenic trematodes and amphibian hosts. in *Libro homenaje al Dr. Eduardo Caballero y Caballero, Jubileo 1930-1960*. Mexico, D.F. (Instituto Politécnico Nacional) : 173-196.
- Korathra, K. J. (2).** Preliminary report on the monogenic trematodes of marine fishes of the eastern Indo-Pacific. *J. Parasit.* **46** 5 Sect. 2 : 13-14. [Abstract].

- Koratha, K. J. (3).** Preliminary report on the parasites of a chimaerid fish *Hydrolagus collei* (Lay and Bennett) from the eastern Indo-Pacific with comments on the phylogenetic significance of parasitic distribution in Holoccephali. *J. Parasit.* **46** 5 Sect. 2 : 14. [Abstract].
- Koratha, K. J. & Martin, W. E.** Preliminary report on the life history of monogenetic trematodes with observations on the survival of adults outside the host. *J. Parasit.* **46** 5 Sect. 2 : 14-15. [Abstract].
- Korn, H. (1).** Zur Dauer der Metamorphose von *Echiurus abyssalis* Skor (Echiurida, Annelida). *Kieler Meeresforsch.* **16** : 238-242 5 figs.
- Korn, H. (2).** Ergänzende Beobachtungen zur Struktur der Larve von *Echiurus abyssalis* Skor. *Z. wiss. Zool.* **164** : 199-237 35 figs.
- Korn, H. (3).** Das larvale Nervensystem von *Pectinaria* Lamarck und *Nephtys* Cuvier (Annelida, Polychaeta). *Zool. Jb. (Anat.)* **78** : 427-456 35 figs.
- Korotkevitch, V. S.** A new genus of pelagic nemertean from the Antarctic. *Zool. Zh.* **39** : 838-841 3 figs. [English summary].
- Korpaczewska, W.** Some reflections on *Hymenolepis furcifera* Krabbe 1869 and related species. *Acta Parasit. polon.* **8** : 461-470 3 figs.
- Kosicki, S.** The vertical distribution of pelagic Rotatoria during the summer stagnation in lakes Mikolajki and Sniardwy. *Polsk. Arch. Hydrobiol.* **8** : 9-61 24 figs. [English, etc., summaries].
- Kotel'nikov, G. A.** Life cycle of the cestode, *Fimbriaria amurensis* sp. n., parasite of domestic ducks. *Dokl. Akad. Nauk S.S.S.R. (Transl.) Biol. Sci.* **130** : 133-134 1 fig. [Dokl. Akad. Nauk S.S.S.R. **130** : 944-945 1 fig.].
- Kováts, L.** *Planaria alpina* (Dana) in the valley of the Sicas. *Natura, Bucuresti* **12** : 94-96 2 figs.
- Kozicka, J.** Metacercaria *Neodiplostomum pseud-attenuatum* (Dubois, 1928) Dubois, 1932, syn. *Neodiplostomum scardinii* Schulman (in Dubinin 1952). *Acta Parasit. polon.* **8** : 369-377 9 figs.
- Kozicka, J. & Niewiadomska, K. (1).** *Tylodelphys podicipina* sp. n. (Trematoda, Strigeidae) and its life-cycle. *Acta Parasit. polon.* **8** : 25-36 13 figs.
- Kozicka, J. & Niewiadomska, K. (2).** Studies on the biology and taxonomy of trematodes of the genus *Tylodelphys* Diesing, 1850 (Diplostomatidae). *Acta Parasit. polon.* **8** : 379-401 6 figs.
- Kozłowska, J.** On the nematodes of amphibians of Poland, mainly from the environment of Lodz. *Acta Parasit. polon.* **8** : 215-230 1 fig.
- Kradel, J.** Mehrjährige Untersuchungen zum Wirtspflanzenkreis einer Herkunft des Stock- und Stengelälchens (*Ditylenchus dipsaci*). *Nematologica Suppl. II* : 40-48 3 figs.
- Krall, E.** *Hemicyclophora typica* De Man, 1921 (Nematoda, Criconematidae) first recorded in fresh waters. *Loodus. Selts. Tallinn* **51** 1959 : 199-201 1 fig. [English summary].
- Kreis, H. A. (1).** Parasitische Würmer aus süd-amerikanischen Hauttieren (Beiträge zur Kenntnis parasitischer Nematoden. XXII). *Z. Parasit.* **20** : 23-134 34 figs.
- Kreis, H. A. (2).** Beiträge zur Kenntnis parasitischer Nematoden. XXI. Ein neuer parasitischer Nematode aus dem Klippeschliefer *Procaecia capensis* Pallas (Ungulata ; Hyracoidae) : *Acanthostephanoccephalus caballeroi* n. g., n. sp. (Oxyuroidea ; Atractidae ; Crossocephalinae). in Libro homenaje al Dr. Eduardo Caballero y Caballero, Jubileo 1930-1960. Mexico, D.F. (Instituto Politecnico Nacional) : 481-486 figs.
- Krotas, R. (1).** Über die Beziehungen zwischen *Myxidium lieberkühni* Bütschli, 1882 und *Phyllodistomum folium* (Olfers, 1816). *Acta parasit. lithuan.* **2** 1959 [1960] : 13-16.
- Krotas, R. (2).** Karpinin Zuvu parazitas *Cucullanus dogieli* sp. nov. *Trud. Akad. Nauk Litovsk. S.S.R. (B)* **2** 1959 : 173-176 4 figs.
- Krotov, A. I.** Zoogeographical analysis and hypotheses on the origin of the helminthofauna of vertebrates on the Sakhalin. *Zool. Zh.* **39** : 481-489. [English summary].
- Krüger, F.** Zur Wirkungsweise des Hämoglobins. Versuche an *Arenicola*. *Verh. dtsch. zool. Ges.* 1959 [1960] : 348-351 1 fig.
- Kruidenier, F. J. (1).** Observations on the ultrastructure and histochemistry of cercarial glands. *J. Parasit.* **46** 5 Sect. 2 : 19. [Abstract].
- Kruidenier, F. J. (2).** The accessory piece in the differentiation of certain oxyurids of the genus *Syphacia* Seurat, 1916. *J. Parasit.* **46** 5 Sect. 2 : 19-20. [Abstract].
- Kruidenier, F. J. (3).** Ultrastructure in the tails of furcocercous cercariae. *J. Parasit.* **46** 5 Sect. 2 : 32. [Abstract].
- Kubiček, F.** Beitrag zur Kenntnis des Zooplanktons der Frainer Talsperre (Südmähren). *Spisy Přírod. Fak. Univ. Brně* **12** 1959 : 419-436 map. [German, etc., summaries].
- Kühn, O.** Triasfossilien aus den Julischen Alpen. *Razpr. Akad. Ljubljana (4)* **4** 1958 : 441-450 3 figs.
- Kuiper, K.** Resistance of white clover varieties to the clover cyst-eelworm, *Heterodera trifolii* Goffart. *Nematologica Suppl. II* : pp. 95-96.
- Kulakova, A. P.** see Dubinina, M. N.
- Kulakovskaya, O. P.** Development stages of the cestode *Bathylithium rectangulum* recovered from the barbel at different times of the year. *Dokl. Akad. Nauk S.S.S.R. (Transl.) Biol. Sci.* **127** 1959 : 691-693 4 figs.
- Kümmel, G.** Die Feinstruktur des Pigment-becherocells bei Miracidien von *Fasciola hepatica* L. *Zool. Beitr., N.F.* **5** : 345-354 9 figs.
- Kuntz, R. E.** see Coil, W. H.
- Kuntz, R. E.** see Myers, B. J.
- Kuntz, R. E.** see Schad, G. A.
- Kurašvili, B. K.** faune parazitické červej ryb Černého moře. *Česk. Parasit.* **7** : 251-261.
- Kurohagi, T. (1).** Studies on the annual succession of the plankton organisms in Lake Shikotsu, Hokkaido. (I) Quantitative succession of the plankton organisms at an offshore station of Lake Shikotsu, May 1952-June 1957. *Sci. Rep. Hokkaido Salm. Hatch. no. 12* 1958 : 97-110 5 figs. 1 pl. [English summary].
- Kurohagi, T. (2).** On the plankton of Lake Chimik-eppu-ko in eastern Hokkaido. *Sci. Rep. Hokkaido Salm. Hatch. no. 14* 1959 : 193-210 3 figs. 7 pls. [English summary].
- Kurohagi, T. & Sasaki, S.** Seasonal changes of vertical distribution of zooplankton in Lake Shikotsu, Hokkaido. *Sci. Rep. Hokkaido Salm. Hatch. no. 13* 1959 : 51-55 9 figs. [English summary].

- Kutikova, L. A.** *see* Butorina, L. G.
- Ladd, H. S.** (Editor). Treatise on marine ecology and paleoecology. Mem. geol. Soc. Amer. 67 1957: 1-1077 figs.
- Ladygina, N. M.** Influence of the temperature on the intensity of respiration of some phytohelminthes. Dokl. Akad. Nauk Ukr. S.S.R. No. 2: 228-231. [English summary].
- Lal, M. B. & Shrivastava, S. C.** Some histochemical observations on the cuticle of *Fasciola indica* Varma, 1953. Experientia 16: 185-186.
- Lagrange, E.** Infections unisexuées et possibilité de guérison de bilharziose à *S. mansoni* chez la souris. Riv. Parasit. 19 1958: 59-66. [English summary].
- Laing, A. B. G., Edeson, J. F. B. & Wharton, R. H.** Studies on filariasis in Malaya: the vertebrate hosts of *Brugia malayi* and *B. pahangi*. Ann. trop. Med. Parasit. 54: 92-99 2 pls.
- Lall, B. S. & Ansari, M. N. A.** Field studies on the root-knot nematodes (*Meloidogyne* spp.) Nematoda Heteroderidae. Sci. & Cult. 26: 279-281 1 fig.
- Lamont, A. & Lindström, M.** Arenigian and Llandecilian Charts identified in the Southern Uplands of Scotland by means of Conodonts, etc. Trans. Edinb. geol. Soc. 17 1957: 60-70 1 pl. figs.
- Larne, R.** Contribution à la connaissance limnologique du Lac d'Aydat. Rev. Sci. nat. Auvergne N.S. 24: 3-49 4 figs.
- Laubier, L. (1).** Une nouvelle sous-espèce de Syllidien: *Haplosyllis depressa* Augener ssp. nov. *Chamaeleon*, ectoparasite sur l'octocoralliaire *Muricea chamaeleon* Von Koch. Vie et Milieu 11: 75-87 2 figs.
- Laubier, L. (2).** Présence à Banyuls de *Vermiliopsis richardi* Fauvel, polychète Serpulidae. Vie et Milieu 11: 319-320.
- Laubier, L. (3).** *Diplocirrus glaucus* (Malmgren), Chloracemidae nouvelle en Méditerranée. Vie et Milieu 11: 507-508.
- Laugier, R.** *see* Gardet, G.
- Lavrov, I. I.** On fauna and dynamics of cestodes, parasites of the intestine of cattle in Northern Kazakhstan. Trud. Inst. Zool. Alma-Ata 12: 150-165 11 figs. [In Russian].
- Lawson, J. D.** The succession of shelly faunas in the British Ludlovian. Rep. 21st Internat. Geol. Cong. 7: 114-125.
- Layne, J. N., Birkenholz, D. E. & Griffo, J. V., Jr.** Record of *Dracunculus insignis* (Leidy, 1858) from raccoons in Florida. J. Parasit. 46: 685.
- Le Berre, J. R. & Ritter, M.** Etude histologique de nématocécidies en microscopie de fluorescence. Nematologica Suppl. II: 144-148 2 figs.
- Lebied, B.** Mise au point à propos d'une nouvelle méthode de dissection des vecteurs des filarioses. Le but de cette méthode. Riv. Parasit. 21: 71-79 4 figs.
- Lecuona, M. de O. (1).** A oncocercose e o seu interesse médico-social na Guiné Portuguesa. Bol. cult. Guiné Portug. 15: 193-237 10 pls.
- Lecuona, M. de O. (2).** Primeiros dados sobre a distribuição da oncocercose na Guiné Portuguesa. An. Inst. Med. trop. Lisboa 16 1959: 199-208 1 map 2 pls. [English and French summaries].
- Lee, D. L. (1).** The distribution of glycogen and fat in *Thelastoma bulbovis* (Magalhães, 1900), a nematode parasitic in cockroaches. Parasitology 50: 247-259 24 figs.
- Lee, D. L. (2).** The effect of changes in the osmotic pressure upon *Hammerschmidtella diesingi* (Hammerschmidt, 1838) with reference to the survival of the nematode during moulting of the cockroach. Parasitology 50: 241-246 4 figs.
- Lee, H.-F. (1).** Effects of superinfection on the behavior of *Toxocara canis* larvae in mice. J. Parasit. 46: 583-588.
- Lee, H. F. (2).** The life-history of *Heterobilharzia americana*. J. Parasit. 46 5 Sect. 2: 34. [Abstract].
- Lee, H. F.** *see* Malek, E. A.
- Le Flore, W. B.** The *in vitro* action of normal and immune vertebrate sera on cercariae naturally infecting *Cerithidea californica*. J. Parasit. 46 5 Sect. 2: 31-32. [Abstract].
- Legendre, R.** Sur la présence de cellules neuro-sécrétrices dans les ganglions sous-œsophagiens de la sangsue médicinale (*Hirudo medicinalis* L.) suivie de quelques considérations sur la neurosécrétion. Bull. biol. 93: 462-471 3 figs.
- Lehmann, D. I.** Some parasites of central California amphibians. J. Parasit. 46: 10.
- Leigh, W. H.** The Florida spotted gar, as the intermediate host for *Odhneriotrema incommumodum* (Leidy, 1856) from *Alligator mississippiensis*. J. Parasit. 46 5 Sect. 2: 16. [Abstract].
- Leigh, W. H.** *see* Lenhoff, H. M.
- Leim, A. H.** *see* Bousfield, E. L.
- Le Moigne, A.** *see* Lender, T.
- Lender, T.** L'inhibition spécifique de la différenciation du cerveau des planaires d'eau douce en régénération. J. Embryol. exp. Morph. 8: 291-301 1 pl.
- Lender, T. & Gabriel, A.** Étude histochemique des néoblastes de *Dugesia lugubris* (Turbellarie Triclade) avant et pendant la régénération. Bull. Soc. zool. Fr. 85: 100-110 9 figs.
- Lender, T. & Le Moigne, A.** Les organes musculoglandulaires de *Polycelis tenuis* Jijima (Turbellarie Triclade). Bull. Soc. zool. Fr. 85: 90-99 8 figs.
- Lenhoff, H. M., Schroeder, R. & Leigh, W. H.** The collagen-like nature of metacercarial cysts of a new species of *Ascoctyle*. J. Parasit. 46 5 Sect. 2: 36. [Abstract].
- Lentati, G. B.** Processi maturativi ed evoluzione dello spermio in ovociti sinaptici ed asinaptici di planarie. Atti Soc. tosc. Sci. nat. 66B: 60-80 2 pls. 14 figs.
- Lesli-Massari, A.** *see* Pasquini, P.
- Lessertisseur, J.** *see* Gardet, G.
- Le Van Hoa (1).** Redescription de quelques *Capillaria* peu connus, récoltés le Richelieu (Indre-et-Loire). Ann. Parasit. hum. comp. 35: 594-606 4 figs.
- Le Van-Hoa (2).** Synonymie des genres *Amplicaeum* Baylis 1920 et *Ornascaris* Skrjabin 1916. Ann. Parasit. hum. comp. 35: 760-761.
- Levine, D. M. & Kagan, I. G.** Studies on the immunology of schistosomiasis by vaccination and passive transfer. J. Parasit. 46: 787-792.

- Levine, N. D., Schaeffler, W. F. & Szanto, J.** The effect of early weaning on acquisition of gastrointestinal nematodes by lambs. *J. Parasit.* **46** 5 Sect. 2 : 41-42. [Abstract].
- Lewert, R. M. & Dusanic, D. G.** The effect of a diamino-dibenzyl-alkane on the histochemical reaction for alkaline phosphatase in adult *Schistosoma mansoni*. *J. Parasit.* **46** 5 Sect. 2 : 32. [Abstract].
- Lewert, R. M. & Mandlowitz, S.** Studies on innate immunity to *Schistosoma mansoni*. *J. Parasit.* **46** 5 Sect. 2 : 32. [Abstract].
- Lewert, R. M. see Mandlowitz, S.**
- Leytham, G. W. H. see Stretch, R. G. A.**
- Li Hsü, S. Y. & Hsü, H. F. (1).** New approach to immunization against *Schistosoma japonicum*. *Science* **133** : 766.
- Li Hsü, S. Y. & Hsü, H. F. (2).** Infectivity of the Philippine strain of *Schistosoma japonicum* in *Oncomelania hupensis*, *O. formosana* and *O. nosophora*. *J. Parasit.* **46** : 793-796.
- Li Hsü, S. Y. see Hsü, H. F.**
- Lillis, W. G. see Burrows, R. B.**
- Lindahl, I. see Kates, K. C.**
- Lindahl, I. see Turner, J. H.**
- Lindström, M. (1).** Two Ordovician Conodont Faunas found with Zonal Graptolites. *Geol. Föreh. Stockh. Förh.* **79** 1957 : 161-178 2 pls. figs.
- Lindström, M. (2).** A Lower-Middle Ordovician succession of conodont faunas. *Rep. 21st Internat. geol. Cong.* **7** : 88-96 figs.
- Lindström, M. see Lamont, A.**
- Ling, M. T. & Chow, S. C.** A new species of *Ostertagia* (Nematoda : Trichostrongylidae) from the sheep of Chekiang. *Acta zool. sinica* **12** : 114-118 8 figs. [English summary].
- Little, M. D. see Malek, E. A.**
- Llewellyn, J.** Amphibdeliid (monogenean) parasites of electric rays (Torpedinidae). *J. mar. biol. Ass. U.K.* **39** : 561-589 3 pls. 28 figs.
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- Llewellyn, L. M. see Bruce, J. I.**
- Logachev, E. D. (1).** On the trophic function of the intestinal epithelium of trematodes. *Dokl. Akad. Nauk S.S.S.R. (Transl.) Biol. Sci.* **131** : 282-284 2 figs. [Dokl. Akad. Nauk S.S.S.R. **131** : 709-712].
- Logachev, E. D. (2).** On the tissue-nature of epithelium in Cestodes. *Trud. Inst. Zool. Alma-Ata* **12** : 137-139. [In Russian].
- Logachev, E. D. & Bruskin, R. B. (1).** On the question of the trematode's asexual reproduction. *Acta parasit. lithuan.* **2** 1959 [1960] : 97-99 3 figs.
- Logachev, E. D. & Bruskin, R. B. (2).** The histological changes occurring in the intestine of ducks as a result of invasion by the acanthocephalan *Polymorphus magnus* Skrjabin 1913. *Dokl. Akad. Nauk S.S.S.R. (Transl.) Biol. Sci.* **129** 1959 : 1052-1054 4 figs. [Dokl. Akad. Nauk S.S.S.R. **129** 1959 : 709-710 1 pl.]
- Loof, P. A. A.** Nomenclatorial note upon some *Pratylenchus* species. *Nematologica* **5** : 322-323.
- Loos, C. A. & Loos, S. B.** The black-head disease of bananas (*Musa acuminata*). *Proc. helminth. Soc. Wash.* **27** : 189-193 8 figs.
- Lordello, L. G. E. & Zamith, A. P. L.** *Meloidogyns coffeicola* sp. n., a pest of coffee trees in the state of Paraná, Brazil (Nematoda, Heteroderidae). *Rev. bras. Biol.* **20** : 375-379 10 figs.
- Lorenzo, A. S. see Stransky, E.**
- Louch, C. D.** Resistance to *Trichinella spiralis* following infection by *Nippostrongylus muris*. *J. Parasit.* **46** 5 Sect. 2 : 23. [Abstract].
- Lubinsky, G. (1).** The maintenance of *Echinococcus multilocularis sibiricus* without the definitive host. *Canad. J. Zool.* **38** : 149-151.
- Lubinsky, G. (2).** The variability of the number of rostellar hooks in two species of *Echinococcus* from North America. *Canad. J. Zool.* **38** : 605-612 4 figs.
- Lubinsky, G. (3).** A vegetatively propagated strain of larval *Echinococcus multilocularis*. *Canad. J. Zool.* **38** : 1117-1125 15 figs.
- Lubyantsev, I. P.** Some materials dealing with the bottom fauna composition of the Molotschny estuary and the Pre-Azov area. *Byull. mosk. Obsch. Isp. Prir. Biol. N.S.* **65** : 55-60. [English summary].
- Luc, M. (1).** *Dolichodorus profundus* n. sp. (Nematoda-Tylenchida). *Nematologica* **5** : 1-6 1 pl.
- Luc, M. (2).** Trois nouvelles espèces du genre *Rotylenchoides* Whitehead, 1958 (Nematoda-Tylenchida). *Nematologica* **5** : 7-17 3 figs.
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- Lucker, J. T. & Douvres, F. W.** Survival of *Taenia saginata* eggs on stored hay. *Proc. helminth. Soc. Wash.* **27** : 110-111.
- Lucker, J. T. & Vegors, H. H.** Immunization against the cattle lungworm : an experiment on the use of larvae attenuated by exposure to X-rays. *J. Parasit.* **46** 5 Sect. 2 : 39. [Abstract].
- Lucker, J. T. see Goldberg, A.**
- Luferov, V. P.** Occurrence of *Acanthocephalus lucii* (Müller) in the bottom fauna of Rybinsk Reservoir. *Byull. Inst. Biol. Vodochr. No. 6* : 20. [In Russian].
- Luft, K.** The helminths of jay (*Garrulus glandarius* L.) and magpie (*Pica pica* L.) from Lublin Palatinate. *Acta Parasit. polon.* **8** : 351-356.
- Lukacsovics, F.** Wirkung der Larve von *Polymorphus minutus* Goetze (Acanthocephala) auf die Art *Gammarus roeseli* Gerv. (Amphipoda). *Ann. Inst. biol. (Tihany) hung. Acad. Sci.* **26** 1959 : 31-39 4 figs. [German summary].
- Lukin, E. I.** Elements of the leech fauna of China and Japan of the Amur Basin within the ranges of the U.S.S.R. *Zool. Zh.* **39** : 40-44. [English summary].
- Lukin, E. I. & Epshtein, V. M.** Endemic Baikal leeches of the family Glossiphoniidae. *Dokl. Akad. Nauk S.S.S.R. (Transl.) Biol. Sci.* **131** : 318-320 3 figs. [Dokl. Akad. Nauk S.S.S.R. **131** : 457-460].
- Lukose, J.** A note on an association between two adult earthworms. *Curr. Sci.* **27** : 106-107 1 fig.
- Luli, M. see Erhardová, B.**
- Lund, E. E.** Factors influencing the survival of *Heterakis* and *Histomonas* on soil. *J. Parasit.* **46** 5 Sect. 2 : 38. [Abstract].

- Lutzens, H.** Die stratigraphische und tektonische Stellung der Wenigeröder Schichten nach Conodonten. *Geologie* 8 1959 : 71-92.
- Lynsdale, J. A.** On *Proteocephalus sandoni* n. sp. from the Sudan. *J. Helminth.* 34 : 43-46 2 figs.
- Lys, M. & Serre, B.** Étude de conodontes du Dévonien et du Carbonifère de la région d'Adrar-Tanezrouft (Sahara). *Rev. Inst. Franc. Petrol.* 12 1957 : 1035-1066 7 pls. [English summary].
- Lys, M.** see Serre, B.
- Machado de Mendonça, J.** see Teixeira de Freitas, J. F.
- Machado F., D. A. (1).** Um novo gênero da família Quadrigyridae Van Cleave 1920 (Metacanthocephala, Palaeacanthocephala). *Rev. bras. Biol.* 20 : 79-84 14 figs.
- Machado F., D. A. (2).** Uma nova espécie do gênero *Neoechinorhynchus* Hamann, 1892 parasita de "peixe-Martin" do Paraguai (*Neoechinorhynchidae*, Archiacanthocephala). *Rev. bras. Biol.* 19 1959 : 379-381 7 figs.
- Mackie, G. O.** Echiuroids from the Canary Islands. *Ann. Mag. nat. Hist.* (13) 3 : 247-251 2 figs.
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- Macko, J. K. (2).** Zur Fauna der Plathelminthen des Purpurreihers (*Ardea purpurea* L.). *Biología, Bratislava* 15 : 608-612 3 figs. [German summary].
- Macko, J. K. (3).** Saugwürmer *E. sinorchis* Oschmarin, 1956 und *I. longivittellata* Strom, 1947, Gefunden bei neuen Wirbeltieren. *Biología, Bratislava* 15 : 694-699 2 figs. [German summary].
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- Maggi, A. R. & Allen, M. W.** The origin of the gelatinous matrix in *Meloidogyna*. *Proc. helminth. Soc. Wash.* 27 : 4-10 5 figs.
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- Makarov, P. V. (2).** [Investigations on gametogenesis in connection with the reductional division]. *J. Obshch. Biol.* 17 1956 : 185-201 14 figs. [In Russian].
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- Maksimova, S. V.** Ilovuie trubki-polikhet iz Nizhnego Karbona Kuznetskogo Bassaina. [Mud tubes of polychaetes from the Lower Carboniferous of the Kuznetsk Basin]. *Paleont. Zhurnal* 1959 1 : 118-120 1 pl.
- Malek, E. A. (1).** Human and animal schistosomiasis in Khartoum Province, Sudan. *J. Parasit.* 46 : 111.
- Malek, E. A. (2).** *Bulinus (Bulinus) forskalii* Ehrenberg, 1831 : intermediate host of *Gastrodiscus aegyptiacus* (Cobbold, 1876) Looss, 1896. *J. Parasit.* 46 5 Sect. 2 : 16. [Abstract].
- Malek, E. A., Ash, L. R., Lee, H. F. & Little, M. D.** Schistosomiasis in Louisiana mammals. *J. Parasit.* 46 5 Sect. 2 : 34. [Abstract].
- Malik, B. S., Rai, P. & Ahluwalia, S. S.** A note on helminths of the Indian elephant. *Indian J. Vet. Sci.* 29 1959 [1960] : 11-17 4 figs.
- Malsahn, E.** Neue Fossilfunde und vertikale Verbreitung der niederrheinischen Zechsteinafauna in den Bohrungen Kamp 4 und Friedrich Heinrich 57 bei Kamp-Lintfort. *Geol. Jb.* 73 1958 : 91-126 4 pls. fig.
- Mandlowitz, S., Dusanic, D. & Lewert, R. M.** Peptidase and lipase activity of extracts of *Schistosoma mansoni* cercaria. *J. Parasit.* 46 : 89-90.
- Mandlowitz, S.** see Lewert, R. M.
- Mañe-Garzon, F.** *Didymorchis haswelli* n. sp. un nuevo Temnocephalida de la cavidad branquial de *Parastacus saffordi* Faxon. *An. Mus. Hist. nat. Montevideo* (2) 7 : 1-9 4 pls.
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- Manter, H. W. & Pritchard, M. H. (3).** Additional hemiurid trematodes from Hawaiian fishes. *Proc. helminth. Soc. Wash.* 27 : 165-180 20 figs.
- [Marakov, V. V.]. [On the fauna of Sipunculida, Echiurida and Priapulida of the Far Eastern seas]. *Invest. Far East. Seas U.S.S.R.* 2 1950 : 239-247. [In Russian].
- Marcus, E.** Turbellaria from Curaçao. *Natuurw. Stud. Suriname No. 21* : 41-51 15 figs.
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- Marinov, T. (1).** Polychaete fauna of the Bulgarian Black Sea Coast. *Izvest. Akad. Nauk, Sofiya Biol.* 8 1959 : 83-104 16 figs. [German summary].
- Marinov, T. (2).** [A list of Polychaetes from the Aegean Sea]. *Izvest. Akad. Nauk, Sofiya Biol.* 8 1959 : 293-294. [Russian & German summaries].
- Markewicz, F. J.** see Ethington, R. L.
- Markowski, S.** Observations on the response of some benthic organisms to power station cooling water. *J. Anim. Ecol.* 29 : 349-357 2 figs.
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- Marsden, J. R.** Polychaetous annelids from shallow waters around Barbados and other islands of the West Indies, with notes on larval forms. *Canad. J. Zool.* 38 : 989-1020 33 figs.
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- Martin, W. E. (2).** Hawaiian helminths. IV. *Paracardicola hawaiiensis* n. gen., n. sp. (Trematoda : Sanguinicolidae) from the balloon fish, *Tetraodon hispidus* L. *J. Parasit.* 46 : 648-650 1 pl.
- Martin, W. E. (3).** Hawaiian helminths. II. *Dactylostomum caballeri* n. sp. (Trematoda : Opecoelidae). In *Libro homenaje al Dr. Eduardo Caballero y Caballero, Jubileo 1930-1960*. Mexico, D.F. (Instituto Politécnico Nacional) : 203-205 3 figs.
- Martin, W. E. & Adams, J. E.** Life-cycle of *Acanthoparyphium spinulosum* Johnston, 1917 (Echinostomatidae). *J. Parasit.* 46 5 Sect. 2 : 35. [Abstract].
- Martin, W. E.** see Adams, J. E.
- Martin, W. E.** see Koratha, K. J.
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- Mayhew, R. L., Miller, G. C. & Torbert, B. J.** Studies on bovine gastro-intestinal parasites. XXI. Immunity to *Cooperia punctata* and *Oesophagostomum radiatum*. *J. Parasit.* 46 : 859-866.
- McAlpin, N. R.** see Marquardt, W. C.
- McCauley, J. E.** Some hemiurid trematodes of Oregon marine fishes. *J. Parasit.* 46 : 84-89.
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- McCauley, J. E. & Pratt, I. (2).** The life-history of *Echinochasmus miloi* Yamaguti, 1939. *J. Parasit.* 46 5 Sect. 2 : 15. [Abstract].
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- McGowan, J. A.** The relationship of the distribution of the planktonic worm, *Poebius meseres* Heath, to the water masses of the North Pacific. *Deep Sea Res.* 6 : 125-139 7 figs.
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- McKey-Fender, D.** see Macnab, J. A.
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- Megemont, C., Dastague, G., Bastide, P. & Durel, B.** Activité comparée en tant qu'effecteurs de l'acétylcholine de quelques anesthésiques locaux en présence du ventricule isolé d'*Helix pomatia* et de la musculature dorsale énervee d'*Hirudo medicinalis*. *C.R. Soc. Biol. Paris* 154 : 64-66.
- Megyery, J.** see Abraham, A.
- Mehra, K. N.** see Waitz, J. A.
- Meisenhelder, J. E., Olszewski, B. & Thompson, P. E.** Observations on therapeutic and prophylactic effects of homologous immune blood against *Schistosoma mansoni* in rhesus monkeys. *J. Parasit.* 46 : 645-647.
- Meisenhelder, J. E.** see Worley, D. E.
- Mekbel, A. S.** see Biagi, F. F.
- Menzel, M. Y. & Short, R. B.** Pachytene chromosomes in three species of schistosomes. *J. Hered.* Washington 51 : 3-12 4 figs.

- Menzel, M. Y.** *see* Short, R. B.
- Mergenhagen, S. E.** *see* Millemann, R. E.
- Merkusheva, I. V.** [Helminths of rodents in Southern part of Belorussia]. *Bull. Inst. Biol. for 1956*, Minsk, 2 1957 : 259-263. [In Russian].
- Merkusheva, I. V.** *see* Dilko, N. I.
- Mettrick, D. F. (1).** A new tapeworm, *Choanotaenia angolensis*, n. sp. from the Angola pitta, *Pitta angolensis*, in Southern Rhodesia. *J. Parasit.* **46** : 398-299 2 figs.
- Mettrick, D. F. (2).** Two new species of the genus *Paruterina* Fuhrmann, 1906, from Passeriform birds in Southern Rhodesia. *Proc. helminth. Soc. Wash.* **27** : 181-184 8 figs.
- Mettrick, D. F. (3).** A new cestode, *Ophiotaenia ophioides*, n. sp., from a night-adder, *Causus rhombeatus* (Licht.), in Southern Rhodesia. *Proc. helminth. Soc. Wash.* **27** : 275-278 3 figs.
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- Mettrick, D. F. (5).** Helminth parasites of Hertfordshire birds. IV. Survey results. *J. Helminth.* **34** : 267-276.
- Mettrick, D. F. (6).** Contributions to the helminth fauna of Central Africa. I. A redescription of *Railletina (Railletina) werneri* (Klapotcz, 1908) from the red-faced cody (*Urocolius indicus*) in Southern Rhodesia. *Proc. Rhodes. sci. Ass.* **47** : 47-50 2 figs.
- Mettrick, D. F. & Weir, J. S.** Speciation within the cestode genus *Inermicapsifer*. *Rev. Biol. Lisboa* **2** : 137-149 4 figs.
- Meyl, A. H. (1).** Die Fadenwürmer (Nematoda) einiger Salzstellen südöstlich von Braunschweig. *Abh. braunschw. Wiss. Ges.* **6** 1954 : 84-106 2 pls.
- Meyl, A. H. (2).** Freilebende Nematoden aus binnenländischen Salzbiotopen zwischen Braunschweig und Magdeburg. *Arch. Hydrobiol.* **50** 1955 : 568-614 25 figs.
- Meyer, F. P.** The life cycle of *Marsipometra hastata* (Linton, 1898) Cooper, 1917. *J. Parasit.* **46** 5 Sect. 2 : 18. [Abstract].
- Meyer, M. C.** Notes on *Philonema agubermaculum* and other related dracunculoids infecting Salmonids. in *Libro homenaje al Dr. Eduardo Caballero y Caballero*, Jubileo 1930-1960. Mexico, D.F. (Instituto Politecnico Nacional) : 487-492.
- Meyus, H., Clerx, J. & Evens, F.** La bilharziose à *Schistosoma mansoni* du sud du Lac Kivu. *Riv. Parassit.* **21** : 165-198 4 figs.
- Mitchelson, E. H.** *see* Chernin, E.
- Mikhailov, T. K.** [On the parasites of some economic cyprinoid fishes of the river Kura]. *Izv. Akad. Nauk. Azerb. S.S.R. biol. agr.* **6** 1959 : 43-48. [Russian summary].
- Mileikovskii, S. A.** Reproduction and larval development of *Harmothoe imbricata* L. in the Barent Sea and other seas. *Dokl. Akad. Nauk S.S.S.R.* **128** 1959 : 418-421 2 figs. *Dokl. Akad. Nauk S.S.S.R. (Transl.) Biol. Sci.* **128** 1959 : 915-919 2 figs.
- Millemann, R. E. & Mergenhagen, S. E.** Studies on the penetration of schistosome cercariae. I. Action of the antihistamine promethazine hydrochloride. *J. Parasit.* **46** : 155-163 1 pl.
- Miller, G. C. & Harkema, R.** A new locality record for *Heterobilharzia americana*. *J. Parasit.* **46** 2 : 206.
- Miller, G. C.** *see* Mayhew, R. L.
- Milovanović, D. & Živković, A.** Limnološka ispitivanja barazuog jezera na Vlasini. *Zborn. Rad. Inst. Ekol. & Biogeogr. Beograd* **7** 1956 : 1-47 14 figs. [English summary].
- Mimioglu, M., Güralp, N. & Sayin, F.** Ankara köpeklerinde görülen parazit türleri ve bunların yayılış nisbeti. *Vet. Fakul. Derg. Ankara Univ.* **6** : 53-68 figs. [English summary].
- Mines, J. J.** *see* Sprent, J. F. A.
- Mironov, G. N.** [Feeding of planktonic predators. II. Feeding of *Sagitta*]. *Trav. Sta. Biol. Sebastopol.* **13** : 78-88. [In Russian].
- Mitzkevich, V. Y.** *Elaphostrongylus rangiferi* spec. nov. parasite of the reindeer. *Trud. Inst. Zool. Alma-Ata* **12** : 115-119 6 figs. [In Russian].
- Miyazaki, I. & Yoshida, Y.** On the first intermediate host of *Paragonimus ohirai* Miyazaki, 1939 and *P. iloktsuensis* Chen, 1940. *J. Parasit.* **46** 5 Sect. 2 : 17. [Abstract].
- Monin, H.** *see* Nigon, V.
- Montserrat, C. & Buenaventura, A.** Pulmonary paragonimiasis in the Philippines. Report of a case discovered at autopsy with paragonimus and schistosome lesions. *Philipp. J. Sci.* **88** : 363-371 4 pls.
- Monteoliva, M. & Guevara, D.** Estudio electroforético del líquido perivisceral de *Ascaridia galli*. in *Libro homenaje al Dr. Eduardo Caballero y Caballero*, Jubileo 1930-1960. Mexico, D.F. (Instituto Politecnico Nacional) : 493-499 2 figs.
- Moon, A. P., Duxbury, R. E. & Sadun, E. H.** Maintenance of *Dirofilaria uniformis* in laboratory animals. *J. Parasit.* **46** 5 Sect. 2 : 28-29. [Abstract].
- Moon, A. P.** *see* Duxbury, R. E.
- Moore, J. P.** On the contributions of Dr. Eduardo Caballero y C. to Mexican hirudinalogy. in *Libro homenaje al Dr. Eduardo Caballero y Caballero*, Jubileo 1930-1960. Mexico, D.F. (Instituto Politecnico Nacional) : 529-531.
- Morais, T. de (1).** Subsídios para o estudo dos moluscos hospedeiros intermediários da bilharziose nos distritos de Moçambique, Niassa e Cabo Delgado. *An. Inst. Med. trop. Lisboa* **16** 1959 : 187-198. [English and French summaries].
- Morais, T. de (2).** A bilharziose em Moçambique. *An. Inst. Med. trop. Lisboa* **16** 1959 : 179-186. [English and French summaries].
- Moriarty, F.** Laboratory errors associated with the estimation of the population density of *Heterodera* species in soil. *Ann. appl. Biol.* **48** : 665-680 4 figs.
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- Moses, V.** *see* Nicholas, W. L.
- Mountain, W. B.** *see* Pitcher, R. S.

- Mueller, J. F.** The immunologic basis of host specificity in the sparganum larva of *Spirometra mansonoides*. in Libro homenaje al Dr. Eduardo Caballero y Caballero, Jubileo 1930-1960. Mexico, D.F. (Instituto Politecnico Nacional) : 435-442 6 figs.
- Müller, A. H. (1).** "Helminthoide" Lebensspuren aus der Trias von Thüringen. *Geologie* 4 1955 : 407-415 pls. 1-2.
- Müller, A. H. (2).** Über die Lebensspur *Isopodichnus* aus dem Oberen Buntsandstein (Unt. Röt) von Göschwitz bei Jena und Abdrücke ihres mutmasslichen Erzeugers. *Geologie* 4 1955 : 481-489 pls. 1-2.
- Müller, A. H. (3).** Das erste Benthos (*Planolites* ? *vermicularis* n. sp.) aus dem Stinkschiefer mitteleuropäischer Zechstein (Stassfurtserie). *Geologie* 4 1955 : 655-659 text-figs. 1-2.
- Müller, A. H. (4).** Lehrbuch der paläozoologie Band II. Invertebraten. Teil I. Protozoa-Mollusca I. Jena, 1958.
- Müller, E. M.** see Müller, K. J.
- Müller, K. J. (1).** Conodonten der oberdevonischen Independence-Schichten in Iowa. *Paläont. Z.* 32 1958 : 9.
- Müller, K. J. (2).** Kambrische Conodonten. *Z. dtsch. geol. Ges.* 111 1959 : 434-485 5 pls. figs.
- Müller, K. J. (3).** Kambrische Conodonten. *Paläont. Z.* 34 : 12.
- Müller, K. J. (4).** Wert und Grenzen der Conodonten—Stratigraphie. *Geol. Rdsch.* 49 : 83-92 figs.
- Müller, K. J. & Müller, E. M.** Early Upper Devonian (Independence) Conodonts from Iowa, Part I. *J. Paleont.* 31 1957 : 1069-1108 8 pls. figs.
- Mulligan, W.** see Jarrett, W. F. H.
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- Mulvey, R. H. (2).** Abnormalities in second-stage larvae of *Heterodera trifolii* Goffart, 1932 (Nematoda : Heteroderidae). *Canad. J. Zool.* 38 : 777-779 1 pl. 1 fig.
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- Münnich, H.** Histochemische Untersuchungen an Dorn, Leber und Lingen der weissen Maus und Invasion mit Larven des Spulwurms *Ascaris lumbricoides*. *Wiss. Z. Humboldt. Univ. Berlin Math. Nat. R.* 9 : 389-403 12 figs. [English, etc., summaries].
- Myer, D. G.** On the life history of *Mesostephanus kentuckiensis* (Cable, 1935). n. comb. (Trematoda : Cyathocotylidae). *J. Parasit.* 46 : 819-832 2 pls.
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- Myers, B. J. (2).** A note on some helminths from Malaysian animals. *Canad. J. Zool.* 38 : 440-441.
- Myers, B. J. & Kuntz, R. E.** Nematode parasites from vertebrates taken on Lan Yü, Formosa. I. Nematodes from *Rattus rattus*. *Canad. J. Zool.* 38 : 857-858.
- Myers, B. J., Wolfgang, R. W. & Kuntz, R. E.** Helminth parasites from vertebrates taken in the Sudan (East Africa). *Canad. J. Zool.* 38 : 833-836.
- Myers, B. J.** see Cameron, T. W. M.
- Myers, R. F.** The sensitivity of some plant-parasitic and free-living nematodes to gamma and X-irradiation. *Nematologica* 5 : 56-63.
- Myers, R. F.** see Dropkin, V. H.
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- Nadakal, A. M. (4).** Observations on the life-cycle of *Avitellina centripunctata* (Rivolta, 1874), an anoplocephaline cestode from sheep and goats. *J. Parasit.* 46 5 Sect. 2 : 12. [Abstract].
- Nadakal, A. M. (5).** Studies on the excretory and nervous systems of the sheep tape worm *Avitellina centripunctata* (Rivolta, 1874). *J. Parasit.* 46 5 Sect. 2 : 12-13. [Abstract].
- Nadakal, A. M. (6).** Biochromes in certain species of larval trematodes. *J. Parasit.* 46 5 Sect. 2 : 31. [Abstract].
- Nagaty, H. F. & Khalil, H. M. (1).** Piperazine adipate in *Heterophyes heterophyes* and other helminth infections. *The Lancet* : 978.
- Nagaty, H. F. & Khalil, H. M. (2).** Incidence of parasitic infections among the outpatients attending the Rural Health Unit at Ezbet-El-Burg, Damietta Province, Egypt, U.A.R. *J. Egypt. Med. Ass.* 43 : 298-311 tabs. & figs.
- Nagaty, H. F. & Rifaat, M. A.** Treatment of Schistosomiasis, Past and Present. Part I. Historical Review of the use of Antimony in the treatment of Bilharziasis. Part II. Clinical investigations on the treatment of urinary and intestinal bilharziasis with TWSb (Antimonydimercaptosuccinate) with a critical study of its toxic side effects. Part III. Synergism between Antimony (Tartar Emetic), and Thioxanthene compounds in the treatment of Schistosomiasis. *J. Egypt. Med. Ass.* 43 : 659-707.
- Nagaty, H. F., Rifaat, M. A. & Khalil, H. M.** Clinical trials of the antibilharzial effect of a new thioxanthene compound (preparation 17581 Ciba). in Libro homenaje al Dr. Eduardo Caballero y Caballero, Jubileo 1930-1960. Mexico, D.F. (Instituto Politecnico Nacional) : 209-214.
- Najarian, H. H.** The effect of *Schistosoma haematobium* infection on egg-production in the snail *Bulinus truncatus*. *J. Parasit.* 46 5 Sect. 2 : 35. [Abstract].
- Nasir, P. (1).** Trematode parasites of snails from Edgbaston Pool : the life history of the strigeid *Cotylurus brevis* Dubois & Rausch, 1950. *Parasitology* 50 : 551-575 8 figs.
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- Nasir, P. (3).** Studies on the life history of *Echinostoma nudicaudatum* n. sp. (Echinostomatidae : Trematoda). *J. Parasit.* 46 : 833-847 1 pl.
- Nasir, P.** see De Giusti, D. L.

Neal, B. J. Two parasites from coati in southern Arizona. *J. Parasit.* **46** : 647.

Nebol'sina, T. K. Infection of yearlings of Caspian Clupeidae of the genus *Alosa* by the monogenetic trematode *Mazocraes alosa*. Dokl. Akad. Nauk S.S.S.R. (Transl.) *Biol. Sci.* **131** : 291-292 1 fig. [Dokl. Akad. Nauk S.S.S.R. **131** : 1478-1480].

Needham, A. E. The arginase activity of the tissues of the earthworms *Lumbricus terrestris* L., and *Eisenia foetida* (Savigny). *J. exp. Biol.* **37** : 775-782.

Neufahrt, A. Untersuchungen über die Wirkungen von UV- und Röntgenstrahlen auf die Mitose des Eies von *Parascaris equorum* (Goeze) mit Hilfe des Zeitrasterfilms. *Protoplasma* **52** : 473-517 36 figs.

Nicholas, W. L., Dougherty, E. C., Hansen, E. L., Holm-Hansen, O. & Moses, V. The incorporation of ^{14}C from sodium acetate-2- ^{14}C into the amino acids of the soil-inhabiting nematode, *Caenorhabditis briggsae*. *J. exp. Biol.* **37** : 435-443 1 pl. 1 fig.

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Niewiadomska, K. On two cercariae of the genus *Tylolephthys* Dies : *T. excavata* (Rud.) and *T. clavata* (Nord.) Diplostomatidae. *Acta Parasit. polon.* **8** : 427-437 5 figs.

Niewiadomska, K. see Kozicka, J.

Nigon, V., Guerrier, P. & Monin, H. L'architecture polaire de l'oeuf et les mouvements des constituants cellulaires au cours des premières étapes du développement chez quelques nématodes. *Bull. biol.* **94** : 131-202 6 pls. 27 figs.

Noble, E. R. Fishes and their parasite-mix as objects for ecological studies. *Ecology* **41** : 593-596.

Noble, E. R. & King, R. E. The ecology of the fish *Gillichthys mirabilis* and one of its nematode parasites. *J. Parasit.* **48** : 679-685 4 figs.

Noda, K. see Alicata, J. E.

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Odening, K. (3). Zur Grosseinteilung der digenitischen Trematoden. *Z. Parasit.* **20** : 170-174.

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Odening, K. (5). Das Exkretionsgefäßsystem von *Haematolochus variegatus* und *H. asper* (Trematoda, Plagiorchiidae). *Biol. Zentralb. Leipzig.* **79** : 91-96 3 figs.

Odening, K. (6). Eine neue *Concinnum*-Art (Trematoda : Dicrocoeliidae) aus *Herpestes brachyurus* (Carnivora : Viverridae). *Biol. Zentralb.* **79** : 513-519 figs.

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Odening, K. (9). Revision der Unterfamilie *Haematoloechinae* Freitas & Lent 1939 (Trematoda : Plagiorchiidae). *Monatb. Deutsch. Akad. Wissen. Berlin* **2** : 449-454.

Odetoynbo, J. A. & Ulmer, M. J. Microfilarial periodicity of *Splendidofilaria quiscalis* (von Linstow, 1904) n. comb. (Nematoda : Onchocercidae). *J. Parasit.* **46** 5 Sect. 2 : 18-19. [Abstract].

Oliveira, P. E. Invertebrados Cretácicos do fosfato de Pernambuco. *Bol. Div. Geol. min. Rio de J.* **182** 1957 : 1-29 2 pls. [English summary].

Oliver-Gonzalez, J. & Anderson, R. I. Immunity to parasites. [Summary of a discussion]. *Proc. helminth. Soc. Wash.* **27** : 231.

Ollerenshaw, C. B. see Rowcliffe, S. A.

Olsen, L. J. & Ewert, A. Immunological tolerance studies with white mice and *Trichinella spiralis*. *J. Parasit.* **46** 5 Sect. 2 : 22. [Abstract].

Olsen, L. S. & Kelley, G. W. Some characteristics of the early phase of migration of larvae of *Ascaris suum*. *Proc. helminth. Soc. Wash.* **27** : 115-118.

Olsen, O. W. Sylvatic trichinosis in carnivorous mammals in the Rocky Mountain region of Colorado. *J. Parasit.* **46** 5 Sect. 2 : 22. [Abstract].

Olsen, O. W. see Robinson, H. A.

Olson, L. J. see Ewert, A.

Olzowski, B. see Meisenhelder, J. E.

Omodeo, P. Cariologia dei Lumbricidae. II. Contributo. *Caryologia* **8** 1955 : 135-178 16 figs.

Omodeo, P. Ricerche zoologiche sul massiccio del Pollino (Lucania calabria). XXVIII. Oligocheti (secondo contributo). *Annu. Ist. Zool. Univ. Napoli* **11** (3) 1959 [1960] : 1-7.

Osche, G. Systematische, morphologische und parasitophyletische Studien an parasitischen Oxyuroidea (Nematoda) exotischer Diploiden. (Ein Beitrag zur Morphologie des Sexualdimorphismus). *Zool. Jb. (Syst.)* **87** : 395-440 13 figs.

Oshmarin, P. G. On the differentiation of the body of trematodes into motor and genital parts and on the phylogenetical age of this property. *Acta Vet. hung.* **8** 1958 : 257-263.

Oshmarin, P. G. see Parukhin, A. M.

Osipov, A. N. see Gnedina, M. G.

Ouden, H. den (1). Periodicity in spontaneous hatching of *Heterodera rostochiensis* in the soil. *Nematologica Suppl.* **II** : 101-105.

Ouden, H. den (2). A note on parthenogenesis and sex determination in *Heterodera rostochiensis* Woll. *Nematologica* **5** : 215-216.

Ouden, H. den (3). An improved method for making thin agar layers in polyethylene bags. *Nematologica* **5** : 255-259 2 pls. 2 figs.

Ouspenskaja [Uspenskaja], A. V. Parasitofauna des Crustacés benthiques de la mer de Barents. (Exposé préliminaire). *Ann. Parasit. hum. comp.* **35** : 221-242 44 figs.

- Owen, I. L. *see* Llewellyn, J.
- Owen, L. N. *see* Clarkson, M. J.
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- Oye, E. van & Pierquin, L. La repartition géographique des filarioses humaines au Congo et du Ruanda-Urundi. Biol. Jaarb. 28 : 101-118 5 maps.
- Pactzold, D. Nachtrag zur Arbeit "Beiträge zur Nematodenfauna mitteldeutscher Salzstellen im Raum von Halle". Opusc. Zool. Budapest 3 1959 : 81-82.
- Pande, B. P. On *Brijicola caballeri*, n. gen., n. sp., a digenetic trematode from the little egret. in Libro homenaje al Dr. Eduardo Caballero y Caballero, Jubileo 1930-1960. Mexico, D.F. (Instituto Politécnico Nacional) : 227-232 6 figs.
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- Pande, B. P. & Bhatia, B. B. On *Ogmocotyle indica* (Bhalerao, 1942) Ruiz, 1946 (Trematoda), the notocytid monostome of Indian ovis, and its pathogenicity. J. Parasit. 46 : 800-802 1 fig.
- Panin, V. Y. On Helminths of birds in Zaisansk depression. Trud. Inst. Zool. Alma-Ata 12 : 166-172. [In Russian].
- Panin, V. Y. *see* Sokolova, I. B.
- Panseri, C. & Barsotti, G. Conodonts of Ostracod devonians of the región de Semara (Sahara español). Notas Inst. geol. Esp. 55 1959 : 145-176 4 pls. [English summary].
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- Panzer, J. D. *see* Caveness, F. E.
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- Parker, J. C. & Haley, A. J. Method for determination of the number of gyrodactylid trematodes parasitizing the skin of goldfish. J. Parasit. 46 : 417.
- Parukhin, A. M. & Oshmarin, P. G. Nematodes *Encephalonema longimicrofilaria* gen. et sp. nov. from the brain of birds. Zool. Zh. 39 : 934-936 1 fig. [English summary].
- Pasquini, P., Ghirardelli, E. & Lesi-Massari, A. Sulla istogenesi rigenerativa in dischetti isolati dal corpo di *Planaria torva*. R.C. Accad. Bologna Cl. Sci. Fis. (11) 2 1955 : 131-138.
- Pasquini, P., Ghirardelli, E. & Rusticali, A. Sulla rigenerazione di dischetti isolati dal corpo delle Planarie (*Planaria torva*). R.C. Accad. Bologna Cl. Sci. Fis. (11) 2 1955 : 139-147 4 figs.
- Patrick, Z. A. *see* Pitcher, R. S.
- Patyk, S. Helminths in the alimentary tract of cattle in West Poland. Acta Parasit. polon. 8 : 231-253 1 fig.
- Patyk, W. *see* Zarnowski, E.
- Paulian, P. *see* Campana-Rouget, Y.
- Paulynkonis, F. V. Economical losses caused by fasciolosis in cattle and sheep in Lithuania. Trud. Akad. Nauk. Lithuan. S.S.R. (B.) 2 (22) : 149-161. [In Russian].
- Pawlowski, L. K. & Hoffmann, J. Note comparative sur la configuration des cocons des Pisciolidées : *Cystobranthus fasciatus* (Koller) et *Cystobranthus respiratus* (Troschel). Arch. Inst. Grand-Duc. Luxemb. N.S. 26 1959 : 187-193 4 figs.
- Peacock, F. C. Inhibition of root-knot development on tomato by systemic compounds. Nematologica 5 : 219-227.
- Peacock, F. C. *see* Goodey, J. B.
- Pearson, J. C. On the life cycle of *Neodiplostomum butonis* and the occurrence of a periprostate (Trematoda : Diplostomatidae). J. Parasit. 46 : 48.
- Pellegrino, J. & Rodrigues, B. A. The influence of Seitz filtration on the activity of *Schistosoma mansoni* (adult worm) antigen. J. Parasit. 46 : 647.
- Péna, B. *see* Diaz Ungria, C.
- Pesonen, T. & Wilgren, B.-J. Bandmsaklarvermas salt- och temperaturlöslans. Memor. Soc. Fauna Flor. fenn. 35 : 112-118.
- Peters, B. G. Daniel Owen Morgan, 1893-1959. J. Helminth. 34 : 1-2 1 pl.
- Peters, L. E. The systematic position of the genus *Dihemistephanus* Loos, 1901 (Trematoda : Digenea), with the redescription of *D. lydiae* (Stossich, 1896) from the South Pacific. Proc. helminth. Soc. Wash. 27 : 134-138 6 figs.
- Peters, W. Zucht und Beobachtung von Süßwasser Oligochaeten. Mikrokosmos 49 : 129-132 2 figs.
- Peterson, J. E. Living nematodes for classroom use. Turtlex News 38 : 22-23.
- Petrochenko, V. I. An elucidation of the life cycle of the goose tapeworm *Drepanidotaenia przewalskii* Skryabin, 1914. Dokl. Akad. Nauk S.S.S.R. (Transl.) Biol. Sci. 130 : 135-136 1 fig. Dokl. Akad. Nauk S.S.S.R. 130 : 946-948 1 fig.
- Petrovskaya, N. V. [To the ecology of polychaets of the Eastern Murman and some data regarding periods of reproduction and larval stages]. Trud. Murman. Biol. Inst. 5 : 28-67 35 figs. [In Russian].
- Petrushevsky, G. K. & Petrushevskaja, M. A. The accuracy of quantitative indices under the study of the parasitofauna of fishes. Mag. Parasit., Leningr. 19 : 333-343 5 figs.
- Petrushevskaya, M. G. *see* Petrushevsky, G. K.
- Petter, A. J. La blatte germanique (*Blattella germanica* L.), hôte intermédiaire probable d'*Abbreviata caucasica* (Linstow, 1902), Nématode parasite des Primates et de l'Homme. C.R. Soc. Biol. Paris 154 : 87-90 4 figs.
- Petter, A. J. *see* Chabaud, A. G.

- Petter, C.** Etude zoologique de la *Larva migrans*. Ann. Parasit. hum. comp. 35 : 118-137.
- Pfeiffer, H.** *Hymenosphecanthus bulbocirrus* spec. nov. (Hymenolepididae), ein neuer Bandwurm des Schwarzhalschwanen. Z. Parasit. 20 : 345-349 3 figs.
- Pflugfelder, O.** Das Jugendstadium des Entenkratzer *Polymorphus boschadis* Schr. Mikrokosmos 46 1957 : 193-195 3 figs.
- Phifer, K. (1).** Permeation and membrane transport in animal parasites : Further observations on the uptake of glucose by *Hymenolepis diminuta*. J. Parasit. 46 : 137-144.
- Phifer, K. (2).** Permeation and membrane transport in animal parasites : on the mechanism of glucose uptake by *Hymenolepis diminuta*. J. Parasit. 46 : 145-153 2 figs.
- Phifer, K. (3).** Permeation and membrane transport in animal parasites : the absorption of glucose by *Hymenolepis diminuta*. J. Parasit. 46 : 51-62 2 pls.
- Phillips, R. R.** see Roots, B. I.
- Phillipson, R. F. & Kershaw, W. E.** The production, deposition and growth of the larvae of *Trichinella spiralis*, and their significance in the chemotherapy of the infection. I. Introduction, summary of experimental results, and discussion. Ann. trop. Med. Parasit. 54 : 250-251.
- Philpott, D. E.** see Cardell, R. R.
- Picciocchi, P. G. C.** see Serra, J. A.
- Pieczynska, E.** *Tobrilus vistula* n. sp. (Nematoda, Tripyliidae). Bull. Acad. polon. Sci. Sér. Sci. biol. 8 : 249-251 4 figs.
- Pierce, W. D.** Silicified Turbellaria from Calico Mountains nodules. Bull. S. Calif. Acad. Sci. 59 : 138-143 2 pls.
- Pierquin, L.** see Oye, E. van.
- Pillet, J.** Sur deux espèces d'Annélides tubicoles du Dévonien armoricain. Bull. Soc. géol. Fr. (6) 6 1957 : 839-846 1 pl. figs.
- Pinon, M.** see Puytorac, P. de.
- Pires, F. M., David, J. H. S. & Silva, J. A. A.** Oe. Contribuição para o estudo das filárias na Lunda. I. Microfíliarias sanguíneas : incidência e espécie infestante na circumscrição do Chitato. An. Inst. Med. trop. Lisboa 16 1959 : 461-479. [English and French summaries].
- Pistor, W. J.** see Dewhirst, L. W.
- Pitcher, R. S.** see Goodey, J. B.
- Pitchford, R. J. & Visser, P. S.** Some observations on *Schistosoma mansoni* in rodents in the Transvaal. Ann. trop. Med. Parasit. 54 : 247-249 2 figs. 1 pl.
- Pitcher, R. S., Patrick, Z. A. & Mountain, W. B.** Studies on the host-parasite relations of *Pratylenchus penetrans* (Cobb) to apple seedlings. I. Pathogenicity under sterile conditions. Nematologica 5 : 309-314 2 pls. 1 fig.
- Pitts, T. D.** *In vitro* culture of the larvae of *Ascaris lumbricoides* suum. A report on progress. J. Parasit. 46 5 Sect. 2 : 24-25. [Abstract].
- Piusiński, W.** see Fagasiński, A.
- Poddubnaja, T. C.** About autonomy and regeneration in Tubificidae. Byull. Inst. Biol. Vodochr. No. 5 1959 : 15-16. [In Russian].
- Pogoreltzeva, T. P.** [To the study of Cestodes, parasites of Black Sea fishes]. Trud. Karadag. biol. Sta. 16 : 143-159 14 figs. [In Russian].
- Pokorný, V.** Grundzüge der Zoologischen Mikropaläontologie. Band. 2. Berlin 1958.
- Pop, V. & Dragos, M.** Contributions à la connaissance de la structure de la musculature chez les Lumbricides. Stud. Univ. Babes-Bolyai, Cluj (2) No. 2 Biol. : 99-103 3 figs. [French summary].
- Pope, E. C.** [A further note on the giant earthworm from Kyogle, N.S.W.]. Abstr. Linn. Soc. N.S.W., No. 671 1957 : [3].
- Pourriot, R.** Recherches sur la biologie du Rotifère *Eosiphora nayas* Ehrenberg. Hydrobiologia 16 : 309-322 2 figs.
- Prakash, A. & Adams, J. R.** A histopathological study of the intestinal lesions induced by *Echinorhynchus lageniformis* (Acanthocephala-Echinorhynchidae) in the starry flounder. Canad. J. Zool. 38 : 895-897 2 pls.
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- Pratt, I.** see McCauley, J. E.
- Pravda, O., Bican, J. & Brom, F.** Beitrag zur limnologischen Durchforschung der Teiche im budweiser Becken. Sborn. kras. vlast. Mus. Přír. Věd. 1 1958 : 77-106. [German summary].
- Prestage, J. J.** The fine structure of the growth region of ovary in *Ascaris lumbricoides* var. *suum* with special reference to the rachis. J. Parasit. 46 : 69-78 5 pls.
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- Price, E. W. (1).** The giant marlin, *Makaira marlina* Jordan and Evermann, a new host for *Capsala pricei* Hidalgo, 1959, with a review of the subfamily Capsalinae. in Libro homenaje al Dr. Eduardo Caballero y Caballero, Jubileo 1930-1960. Mexico, D.F. (Instituto Politécnico Nacional) : 237-244 fig.
- Price, E. W. (2).** A note on *Ogmocotyle ailuri* (Price, 1954) (Trematoda : Notocotylidae). Proc. helminth. Soc. Wash. 27 : 119-121 1 fig.
- Price, J. H.** see Watson, N. H. F.
- Pritchard, M. H.** *Prepetos caballeroi* n. gen., n. sp. and *Labrifer tertius* n. sp. (Trematoda : Lepocreadiidae) from fishes of Hawaii. in Libro homenaje al Dr. Eduardo Caballero y Caballero, Jubileo 1930-1960. Mexico, D.F. (Instituto Politécnico Nacional) : 245-251 3 figs.
- Pritchard, M. H.** see Manter, H. W.
- Prokopič, J. (1).** Resultaty gelmintologičeskich issledovanij sobak i koček v Albani. Česk. Parasit. 7 : 139-149 5 figs. [French summary].
- Prokopič, J. (2).** K gelmintofaune amfibij Albanii. Česk. Parasit. 7 : 151-158. [French summary].
- Prokopič, J.** see Erhardova, B.
- Prost, M.** *Dactylogyrus caballeroi* sp. n., a new species of Monogeneoidea. in Libro homenaje al Dr. Eduardo Caballero y Caballero, Jubileo 1930-1960. Mexico, D.F. (Instituto Politécnico Nacional) : 253-256 3 figs.
- Provenza, D. V.** see Cheng, T. C.
- Prudhoe, S.** On two new parasitic worms from Brazil. in Libro homenaje al Dr. Eduardo Caballero y Caballero, Jubileo 1930-1960. Mexico, D.F. (Instituto Politécnico Nacional) : 415-421 5 figs.

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- Rai, P.** see Malik, B. S.
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- Ramalingam, K. (1).** On a new species of the genus *Heteromicrocotyle* (Monogenea : Microcotylidae) from the gills of *Caranx affinis* Rupp. *J. zool. Soc. India* **12** : 34-39 5 figs.
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- Read, C. P.** see Wertheim, G.
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- Reid, W. M. (2).** Egg characteristics as aids in species identification and control of chicken tapeworms. *Avian Diseases* **3** 1959 : 188-197 9 figs.
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- Reisinger, E. (3).** Die Lösung des *Parergodrilus*-Problems. *Z. Morph. Ökol. Tiere* **48** : 517-544.
- Rexroad, C. B. (1).** Conodonts from the Chester Series in the type area of Southwestern Illinois. *Rep. Invest. Ill. geol. Surv.* **199** 1957 : 1-43 4 pls. figs.
- Rexroad, C. B. (2).** Conodonts from the Glen Dean Formation (Chester) of the Illinois Basin. *Rep. Invest. Ill. geol. Surv.* **209** 1958 : 1-27 6 pls. figs.
- Rexroad, C. B. (3).** The conodont homeomorphs *Taphrognathus* and *Streptognathodus*. *J. Paleont.* **32** 1958 : 1158-1159.
- Rexroad, C. B. & Clarke, C. E.** Conodonts from the Glen Dean formation of Kentucky and equivalent formations of Virginia and West Virginia. *J. Paleont.* **34** : 1202-1206 fig.
- Rexroad, C. B.** see Collinson, C.
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- Rhodes, F. H. T. & Dineley, D. L. (2).** Supplementary notes on Devonian Conodont faunas from Southwest England. *J. Paleont.* **31** 1957 : 1175.
- Rhodes, F. H. T. & Wingard, P. S.** Chemical composition, microstructure and affinities of the Neurodontiformes. *J. Paleont.* **31** 1957 : 448-454 figs.
- Rhodes, F. H. T.** *see* Dineley, D. L.
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- Ridder, M. De (1).** Recherches sur les rotifères des eaux Saumâtres. IV. Rotifères planctoniques du port d'Ostende. *Bull. Inst. Sci. nat. belg.* **35** 1959 : 1-23 1 fig.
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- Ridder, M. De (3).** Un rotifère nouveau des eaux Saumâtres. *Biol. Jaarb.* **28** : 98-100 1 fig.
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- Robinson, H. A. & Olsen, O. W.** The role of rats and mice in the transmission of the porkworm, *Trichinella spiralis* (Owens, 1835) Railliet, 1895. *J. Parasit.* **46** : 589-597.
- Roche, J., Bessis, M. & Thiery, J. P. (1).** Etude de l'hémoglobine d'*Arenicola marina* L. au microscope électronique. *C.R. Soc. Biol. Paris* **154** : 73-76 5 pls.
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- Roman, E. (2).** A propos de la classification des nematodes du groupe des Trichocéphales. *Bull. Soc. zool. Fr.* **84** 1959 [1960] : 395-398.
- Romanov, I. V.** A new Capillaria species, *Capillaria sibirica* sp. n., from *Eutamias sibiricus*. *Zool. Zh.* **39** : 766-768 2 figs. [English summary].
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- Rossiter, R. J.** *see* Rosenberg, H.
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- Rothman, A. H.** *see* Read, C. P.
- Rothman, A. H.** *see* Simmons, J. E.

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- Rullier, F. (4).** Morphologie et développement du Spionidae (Annélide Polychète) *Polydora (Boccardia) nedeki* Horst. *Cah. Biol. mar.* **1** : 231-243 31 figs.
- Russell, C. R.** An index to the Rotatoria of New Zealand and outlying islands from 1859-1959. *Trans. roy. Soc. N.Z.* **88** : 443-461.
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- Russell, H. T., Jr. (2).** A method of handling small parasites during staining procedure. *J. Parasit.* **46** : 723.
- Rusticali, A.** *see* Pasquini, P.
- Rutter, A. E. H.** Notes on some earthworms collected at East Mallory Research Station. *Trans. Kent Fld. Cl.* **1** 1957 : 36-42.
- Ruttner-Kolisko, A.** Über die Populationen der *Polyarthra dolichoptera* Idelson (Rotatoria) in den Kapruner Staussen. *Anz. öst. Akad. Wiss.* **96** 1959 : 4-9 3 figs.
- Ryšavý, B. (1).** Der Entwicklungszyklus von *Porrocaecum ensicaudatum* Zeder, 1800 (Nematoda : Anisakidae). *Acta Vet. hung.* **9** 1959 : 317-323 4 figs.
- Ryšavý, B. (2).** K voprosu gelmintofauny ptic v Albani. *Česk. Parasit.* **7** : 197-210 11 figs. [German summary].
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- Ryšavý, B.** *see* Erhardová, B.
- Sadikhov, I. A.** The helminths of *Arvicola terrestris* in Azerbaidjan. *Izv. Akad. Nauk. Azerbaid. S.S.R. (Biol.)* **3** : 77-79. [Russian summary].
- Sadun, E. H. & Buck, A. A.** Paragonimiasis in South Korea—Immunodiagnostic, epidemiologic, clinical, roentgenologic and therapeutic studies. *Amer. J. Trop. Med. & Hyg.* **9** : 562-599 24 figs.
- Sadun, E. H., Williams, J. S. & Anderson, R. I.** Fluorescent Antibody Technique for Sero-diagnosis of Schistosomiasis of Humans. *Proc. Soc. Exp. Biol. & Med.* **105** : 289-291.
- Sadun, E. H.** *see* Bruce, J. I.
- Sadun, E. H.** *see* Duxbury, R. E.
- Sadun, E. H.** *see* Moon, A. P.
- Saint-Seine, R. de.** Sur un cas de commensalisme d'une Annélide et d'un *Clypeaster* miocènes. *Bull. Soc. géol. Fr. (6)* **8** 1959 : 581-584 1 pl.
- Sakiyama, F.** Rearing experiments of *Urechis* larvae. *Bull. Mar. biol. Sta. Asamushi* **10** : 81-85 1 fig.
- Salfi, M.** Umberto Pierantoni, 1876-1959. *Arch. zool. ital.* **44** 1959 [1960] : i-xv 1 fig.
- Samson, K. S.** *see* Allen, R. W.
- Sanders, D. F.** *Hydrophitrema gigantea*, n. gen. n. sp. (Trematoda, Digenea) from *Hydrophis elegans* (Gray, 1842) from Australia. in *Libro homenaje al Dr. Eduardo Caballero y Caballero, Jubileo 1930-1960*. Mexico, D.F. (Instituto Politécnico Nacional) : 263-268 6 figs.
- Sannemann, D.** *see* Bischoff, G.
- Santa, E. della** *see* Baer, J. G.
- Sanwal, K. C. (1).** Taxonomic position of *Macrolaimus papillatus* (Rahm, 1928) Goodey, 1951, status of *Diastolaimus* Rahm, 1928, and emended diagnoses of *Chambersiellidae* and *Chambersiella* Cobb, 1920 (Nematoda). *Canad. J. Zool.* **38** : 751-753.
- Sanwal, K. C. (2).** *Panagrellus dubius* n. sp. (Nematoda : Turbatricinae Goodey, 1943), from frass of beetle *Sternochorus lapathi* (L.), with remarks on red-descriptions of *Anguillula rediviva* (L., 1767). *Canad. J. Zool.* **38** : 1041-1046 5 figs.
- Sanwal, K. C. (3).** *Macrolaimus canadensis* n. sp. (Nematoda : Panagrolaiminae), from the frass of the bark beetle *Phloeosinus canadensis* Swaine, 1917, with remarks on other species of the genus *Macrolaimus* Maupas, 1900. *Canad. J. Zool.* **38** : 1127-1131 7 figs.
- Sarwar, M. M. (1).** Notes on some trichurids. *Biologia, Lahore* **6** : 140-162 9 figs.
- Sarwar, M. M. (2).** A note on the nematode parasites of birds. *Biologia, Lahore* **6** : 257.
- Sarwar, M. M. & Barya, M. A.** Effect of small doses of phenothiazine on the development of larvae of *Dictyocaulus filaria* in sheep. *Biologia, Lahore* **6** : 181-184.
- Sasaki, S.** *see* Kurohagi, T.
- Satchell, J. E.** Earthworms and soil fertility. *New Scientist* **7** : 79-81 fig.
- Sathananthan, A. H.** *see* Cruz, H. L.
- Sawada, I. (1).** *Railletina (Railletina) tokyoensis* n. sp. from a domestic pigeon, *Columba livia domestica*. *Annot. zool. jap.* **33** : 57-60 3 figs.
- Sawada, I. (2).** Penetration glands in onchospheres of the chicken tapeworms, *Railletina echinobothrida* and *Railletina kashiwarensis*. *Z. Parasit.* **20** : 350-354 5 figs.
- Sawada, I. (3).** Studies on the artificial hatching of onchospheres of the fowl tapeworm, *Railletina cesticius*. *Zool. Mag., Tokyo* **69** : 142-149 4 figs. [English summary].

- Sayin, F.** *see* Mimioglu, M.
- Schad, G. A.** The genus *Thelandros* (Nematoda: Oxyuroidea) in North American salamanders, including a description of *Thelandros salamandras* n. sp. *Canad. J. Zool.* **38**: 115-120 17 figs.
- Schad, G. A., Kuntz, R. E. & Wells, W. H.** Nematode parasites from Turkish vertebrates. An annotated list. *Canad. J. Zool.* **38**: 949-963 18 figs.
- Schaeffler, W. F.** Experimental infection of sheep with the dog ascarid, *Toxocara canis*. *J. Parasit.* **45** 5 Sect. 2: 17. [Abstract].
- Schaeffler, W. F.** *see* Levine, N. D.
- Schäller, G.** Beitrag zum Problem der Keimzellenbildung bei Trematodenlarven. *Z. Parasit.* **20**: 146-151 1 fig.
- Schell, S. C.** A case of conjoined twin rediae. *J. Parasit.* **46**: 448.
- Schepens, D.** Bijdrage tot de kennis van de Rotatoria van België. *Biol. Jaarb.* **28**: 88-97 6 figs.
- Schiller, E. L.** The histogenesis of cuticle in the cestode genus *Taenia*. *J. Parasit.* **46** 5 Sect. 2: 9-10. [Abstract].
- Schleicher, L.** Grabspuren aus den nichtmarinen Schichten der Bochumer Schichten (Fettkohlen-schichten) Westfalens. *N. Jb. Geol. Paläont. B.6* 1954: 274-284 text-figs. 1-7.
- Schmidt, W. & Teichmüller, M.** Neue funde von *Sphenothallus* auf dem westeuropäischen Festland, insbesondere in Belgien, und ergänzende Beobachtungen zur Gattung *Sphenothallus*. *Publ. Ass. Étud. Paléont.* **33** 1958: 1-34 6 pls.
- Schott, G.** Über einen Fund von *Hepatotaenia festiva* (Rudolphi 1819) in den Gallengängen von einem roten Riesenkänguruh (*Macropus rufus* Desm.). *Z. Parasit.* **20**: 157-160 5 figs.
- Schwan, W.** Zur Neugliederung der Acker-Bruchberg-schichten nach Conodonten Speziell bei Harzburg. *Geologie* **7** 1958: 991-1017.
- Schröder, T.** Zur Limnologie und Abwasserbiologie von Talsperren, obere Saale (Thüringen). *Int. Rev. ges. Hydrobiol.* **44** 1959: 485-619 41 figs.
- Schreiber, K.** *see* Sembdner, G.
- Schriel, W. & Stoppel, D.** Die Einstufung des Tanner Grauwackensystems im Harz auf Grund von Conodonten. *Z. dtsh. geol. Ges.* **111**: 662-683.
- Schroeder, R.** *see* Lenhoff, H. M.
- Schwartz, L. H.** *see* Zimmermann, W. J.
- Sciacchitano, I. (1).** Contributo alla conoscenza degli irudinei del Congo Belga. *Rev. Zool. Bot. afr.* **61**: 287-309 16 figs.
- Sciacchitano, I. (2).** Sangsues de l'Afghanistan. Contribution à l'étude de la faune d'Afghanistan No. 24. in Libro homenaje al Dr. Eduardo Caballero y Caballero 1930-1960. Mexico, D.F. (Instituto Politécnico Nacional): 533-541.
- Schwartz, B.** Discovery of Trichinae and determination of their life history and pathogenicity. *Proc. helminth. Soc. Wash.* **27**: 261-268.
- Schwegler, H. W.** Strudelwürmer. *Mikroskosmos* **49**: 144-148 4 figs.
- Scott, A. J. & Collinson, C.** Intraspecific variability in conodonts: *Palmatolepis glabra* Ulrich & Bassler. *J. Paleont.* **33** 1959: 550-565 2 pls. figs.
- Scott, A. J.** *see* Collinson, C.
- Scott, D.** An epidemiological note on guinea-worm infection in north-west Ashanti, Ghana. *Ann. trop. Med. Parasit.* **54**: 32-43 5 figs.
- Scott, J. A.** A description of certain details of growth and development of the filarial worms of cotton rats and the value of these observations in the study of immunity. in Libro homenaje al Dr. Eduardo Caballero y Caballero, Jubileo 1930-1960. Mexico, D.F. (Instituto Politécnico Nacional): 501-510 7 figs.
- Scott, J. A.** *see* Cross, J. H.
- Seamster, A.** A new species of *Dactylogyrus* from the silver chub. in Libro homenaje al Dr. Eduardo Caballero y Caballero, Jubileo 1930-1960. Mexico, D.F. (Instituto Politécnico Nacional): 269-270 3 figs.
- Segarra, J. M.** *see* Jones, A. W.
- Seilacher, A.** An-aktualistisches Wattenmeer? Paläont. *Z.* **31** 1957: 198-206 2 pls. figs.
- Seilern-Aspang, F. (1).** Beobachtungen über Zellwanderungen bei Trikladengewebe in der Gewebekultur. *Roux Arch. Entw. Mech. Organ.* **152**: 35-42 4 figs.
- Seilern-Aspang, F. (2).** Experimentelle Beiträge zur Frage der Zusammenhänge: Regenerationsfähigkeit-Geschwulstbildung. *Roux Arch. Entw. Mech. Organ.* **152**: 491-516 23 figs.
- Seilern-Aspang, F. (3).** Syncytiale und differenzierte Tumoren bei Tricladen. *Roux Arch. Entw. Mech. Organ.* **152**: 517-523 5 figs.
- Seinhorst, J. W.** *see* Goodey, J. B.
- Semal-Van Gansen, P., Vandermeerssche, G. & Castiaux, P.** Ultrastructure des cellules non caligènes des glandes calciques d'*Eisenia foetida* (Savigny). *Bull. Micr. appl.* (2) **10**: 33-37 6 pls.
- Sembdner, G. & Schreiber, K.** Über die schlüpf-faktive bzw. schlüpfhemmende Wirkung der Wurzel-diffusate verschiedener Pflanzen auf den Kartoffelnematoden, *Heterodera rostochiensis* Woll. 2. Mitt. über *Heterodera*-Arten. *Nematologica Suppl.* **11**: 127-140 2 figs.
- Sen, H. G. & Kelley, G. W., Jr.** Attempts at axenic culture of lungworms of swine. *J. Parasit.* **46** 5 Sect. 2: 24. [Abstract].
- Sengel, C.** Culture *in vitro* de blastème de régénération de Planaires. *J. Embryol. exp. Morph.* **8**: 468-476 5 figs.
- Serafimova-Hadzišić, J.** Particularités du zooplancton du Lac de Prespa et aperçu de la composition du zooplancton des grands lacs de la Péninsule des Balkans. *Rec. Trav. Sta. Hidrobiol. Ohrid* **6** 12 (28) 1958: 1-8.
- Serra, J. A. & Picciochi, P. G. C.** Demonstration of canonic gonial mitosis and meiosis in *Parascaris equorum*. *Science* **132**: 1400-1401 1 fig.
- Serre, B. & Lys, M.** Repartition de quelques conodontes dans le Dévonien et le Carbonifère inférieur de France et de Belgique. *Rep. 21st Internat. Geol. Cong.* **6**: 35-40.
- Serre, B.** *see* Lys, M.
- Shafer, T.** *see* Golden, A. M.
- Sharma, M. L.** *see* Etges, F. J.
- Sheffield, H. G.** *see* Worley, D. E.

- Shepherd, A. M.** A study of the apparent decay of eggs within cysts of *Heterodera schachtii* Schmidt and *H. gottingiana* Liebscher, and of free larvae in soil. *Nematologica* 5 : 103-110 6 figs.
- Shevchenko, N. N. & Vergin, G. I.** A determination of the life cycle of the trematode *Asiobrema monticelli* Stossich 1904. *Dokl. Akad. Nauk S.S.S.R.* (Transl.) *Biol. Sci.* 130 : 137-139 1 fig. *Dokl. Akad. Nauk S.S.S.R.* 130 : 949-952 1 fig.
- Shol, V. A. (1).** On the natural infection of opisthorchiasis. *Trud. Inst. Zool. Alma-Ata* 14 : 61-63. [In Russian].
- Shol, V. A. (2).** Coenurosis in pig. *Trud. Inst. Zool. Alma-Ata* 14 : 180-190 fig. [In Russian].
- Shorb, D. A.** see Gardiner, J. L.
- Short, R. B. & Menzel, M. Y.** Chromosomes of nine species of schistosomes. *J. Parasit.* 46 : 273-287 4 pls.
- Short, R. B.** see Menzel, M. Y.
- Shrivastava, S. C.** see Lal, M. B.
- Shtein, G. A.** The life-cycle and habitat conditions of the nematode *Rhabdochona denudata* (Dujardin, 1845). *Dokl. Akad. Nauk S.S.S.R.* (Transl.) *Biol. Sci.* 127 1959 : 703-704 fig.
- Shultz, R. S. & Andreeva, N. K.** On the immunity of mice to Strobilocercosis in connection with age. *Trud. Inst. Zool. Alma-Ata* 12 : 104-108. [In Russian].
- Shumard, R. F. & Hendrix, J. C.** Studies on the efficacy of diethiazanine iodide against migrating *Ascaris suum* larvae in pigs. *J. Parasit.* 46 5 Sect. 2 : 9. [Abstract].
- Shuster, C. N., Jr.** On the ecology of estuarine zooparasites. *Trans. N.Y. Acad. Sci.* (2) 23 : 133-137.
- Siddiqi, A. H. (1).** Studies on the morphology of *Cotugnia digonopora* Pasquale 1890 (Cestoda : Davainidae). Part I. *Z. Parasit.* 20 : 368-380 7 figs.
- Siddiqi, A. H. (2).** On a new unisexual cestode, *Neodioecostus cablei* n. g., n. sp., from the little grebe, *Podiceps ruficollis*. *Z. Parasit.* 20 : 381-384 3 figs.
- Siddiqi, M. R. (1).** Two new species of the genus *Trichodorus* (Nematoda : Dorylaimoidea) from India. *Proc. helminth. Soc. Wash.* 27 : 22-27 2 figs.
- Siddiqi, M. R. (2).** *Telotylenchus*, a new nematode genus from North India (Tylenchida : Telotylenchinae n. sub-fam.). *Nematologica* 5 : 73-77 1 fig.
- Sidorov, E. G. (1).** Parasites of fish in the water-reservoirs of Central Kazakhstan. *Trud. Inst. Zool. Alma-Ata* 14 : 88-127. [In Russian].
- Sidorov, E. G. (2).** Distribution of metacercariae of *Opisthorchis felinus* in fishes of Irish in the territory of Pavlodarsk Province. *Trud. Inst. Zool. Alma-Ata* 12 : 192-194. [In Russian].
- Sieber, R.** Die Tortonfauna von Steinabrunn bei Drasnhofen (Bez. Mistelbach, N-Ö). *Verh. Geol. Reichs Anst. (St. Anst.) Wien* 1958 : 142-155.
- Silva, J. A. A. Oe.** see Pires, F. M.
- Simmons, J. E., Jr., Read, C. P. & Rothman, A. H.** Permeation and membrane transport in animal parasites : permeation of urea into cestodes from elasmobranchs. *J. Parasit.* 46 : 43-50 2 pls.
- Simmons, J. E.** see Read, C. P.
- Simoes Barbosa, F. A.** Host parasite relationships between the larval stages of the trematode *Schistosoma mansoni* and the snail host *Australorbis glabratus*. *Bol. Fund. G. Moniz* No. 15 : 1-44. [English summary].
- Singh, K. P. & Singh, K. S.** Two new species of avian cestodes of the genus *Panusa* Burt, 1940 from India. in *Libro homenaje al Dr. Eduardo Caballero y Caballero, Jubileo 1930-1960*. Mexico D.F. (Instituto Politecnico Nacional) : 407-413 8 figs.
- Singh, R. N. (1).** Two new species of Strigeid cercariae from northern India. *Proc. Nat. Acad. Sci. India* 25 (B) 1955 : 15-22 5 figs.
- Singh, R. N. (2).** Studies on a new species of schistosome cercaria from *Lymanaea luteola* f. *australis*. *Proc. Nat. Acad. Sci. India* 25 (B), 1955 : 23-28 2 figs.
- Singh, R. N. (3).** Further observations on the miracidium of *Schistosoma spindalis* Montgomery, 1906. *Proc. Nat. Acad. Sci. India* 25 (B), 1955 : 29-36 3 figs.
- Singh, R. N. (4).** Further studies on strigeid cercariae from Allahabad. *Proc. Nat. Acad. Sci. India* 25 (B) 1955 : 37-45 4 figs.
- Singh, R. N. (5).** A new Strigeid cercaria from *Lymanaea luteola*. *Proc. Nat. Acad. Sci. India* 26 (B) 1956 : 239-242 2 figs.
- Singh, R. N. (6).** Studies on a new Strigeid metacercaria parasitic in cyprinoid fishes. *Proc. Nat. Acad. Sci. India* 26 (B) 1956 : 255-263 7 figs.
- Singh, R. N. (7).** Studies on the morphology and life history of *Schistosoma indicum* Montgomery, 1906. *J. Univ. Saurer* 7 1958 : 42-62 12 figs.
- Singh, R. N. (8).** Studies on the morphology and life history of *Clinostomum piscidium* Southwell and Prashad, 1918 (Trematoda : Clinostomatidae). *Proc. Nat. Acad. Sci. India* 29 (B) 1959 : 12-33 11 figs.
- Singh, R. N. (9).** Seasonal infestation of *Indoplanorbis exustus* (Deshayes) with furcocercous cercariae. *Proc. Nat. Acad. Sci. India* 29 (B) 1959 : 62-72.
- Singh, S.** see Gupta, N. K.
- Sinha, P. K. (1).** *Railietina dattai* n. sp. from poultry (*Gallus gallus domesticus*) in India. *J. Parasit.* 46 : 485-486 3 figs.
- Sinha, P. K. (2).** *Syphacia srivastavi* n. sp. from domestic pig in India. *J. Parasit.* 46 : 505-508 table 1 pl.
- Sinha, P. K. & Srivastava, H. D.** Studies on *Schistosoma incognitum* Chandler, 1926. II. On the life history of the blood fluke. *J. Parasit.* 46 : 629-641 2 pls.
- Sinzar, D. S.** Artenliste der Acanthocephalen-Sammlung im Zoologischen Staatsinstitut und Zoologischen Museum, Hamburg. *Mitt. hamburg. zool. Mus.* 57 1959 : 31-35.
- s'Jacob, J. J.** Der Einfluss einiger Gewächse auf die Population von *Meloidogyna hapla*. *Nematologica* Supp. II : 141-143 2 figs.
- Skrajabin, K. I. & Guschanskaja, L. H.** On the identity of the genera *Tricotyledonia* Fyfe, 1954 and *Grassitrema* Yeh, 1954, and a new subfamily Grassitrematinae n. subfam. (Trematoda : Hemiurata). in *Libro homenaje al Dr. Eduardo Caballero y Caballero, Jubileo 1930-1960*. Mexico, D.F. (Instituto Politecnico Nacional) : 271-274 2 figs.
- Sládeček, V., Fízla, L. & Sládečková, A.** Limnologische Forschungen am Stausee Pastviny mit besonderer Berücksichtigung des Einflusses eines Kraftwerkes. *Sborn. Vys. Skol. Chem.-Tech. Praz.* Odd. Fac. tech. paliv a vody 3 1959 : 431-495 6 pls. 89 figs.
- Sládečková, A.** Limnological studies of the reservoir Sedlice near Zelw. XI. Periphyton stratification during the first year-long period (June 1957-July 1958). *Sborn. Vys. Skol. Chem.-Tech. Praz.* 4 : 143-261 46 figs.

- Sládečková, A.** see Sládeček, V.
- Smith, E. H.** On a new polyclad commensal of prosobranchs. *Ann. Acad. bras. Cienc.* **32** : 385-390 4 figs.
- Smith, W. L., Jr.** see Dropkin, V. H.
- Smythies, B. E.** Leeches of Borneo. *Sarawak Mus. J.* n.s. **9** : 279-294 4 figs.
- Sobrero, R.** Animali domestici ospiti naturali di *Schistosoma bovis* in Somalia. *Riv. Parasit.* **21** : 125-130 1 fig.
- Sogandares-Bernal, F. & Bridgman, J. F.** Three *Ascoctyle* complex trematodes (Heterophyidae) encysted in fishes from Louisiana, including the description of a new genus. *Tulane Stud. Zool.* **8** : 31-39 8 figs.
- Sogandares-Bernal, F. & Hutton, R. F. (1).** Notes on the probable partial life-history of *Galactosomum spinetum* (Braun, 1901) (Trematoda) from the west coast of Florida. *Proc. helminth. Soc. Wash.* **27** : 75-77 4 figs.
- Sogandares-Bernal, F. & Hutton, R. F. (2).** The status of some marine species of *Lepocreadium* Stossich, 1904 (Trematoda : Lepocreadiidae) from the North American Atlantic. in *Libro homenaje al Dr. Eduardo Caballero y Caballero, Jubileo 1930-1960*. Mexico, D.F. (Instituto Politécnico Nacional) : 275-283 15 figs.
- Sogandares-Bernal, F.** see Hutton, R. F.
- Sokolova, I. B. & Panin, V. Y.** On intermediate hosts of *Moniezia*, *Thysaniezia* and *Avitellina* in Kazakhstan. *Trud. Inst. Zool. Alma-Ata* **12** : 145-149. [In Russian].
- Solberg, B.** see Dougherty, E. C.
- Soliman, K. N.** Morphological study on *Dictyocaulus arnfieldi* (Cobbold, 1884) Railliet and Herry, 1907, from a donkey in Egypt. *Brit. vet. J.* **116** : 191-195 4 pls.
- Solovyev, G. V.** see Gagarin, V. G.
- Sommerville, R. I.** The growth of *Cooperia curticei* (Giles, 1892), a nematode parasite of sheep. *Parasitology* **50** : 261-267 2 figs.
- Sommerville, R. I.** see Rogers, W. P.
- Sonin, M. J.** see Spassky, A. A.
- Soto, L. B.** Estudios histológicos en piel y oncocercomas de oncocercoses. in *Libro homenaje al Dr. Eduardo Caballero y Caballero, Jubileo 1930-1960*. Mexico, D.F. (Instituto Politécnico Nacional) : 443-450.
- Sparks, A. K.** Some aspects of the zoogeography of the digenetic trematodes of shallow-water fishes of the Gulf of Mexico. in *Libro homenaje al Dr. Eduardo Caballero y Caballero, Jubileo 1930-1960*. Mexico, D.F. (Instituto Politécnico Nacional) : 285-298.
- Spasskaya, A. K. & Thatcher, V. E.** A new species of *Crassicutis* (Trematoda, Allocreadiidae) from a sparid fish (*Archosargus probatocephalus*) in the northern Gulf of Mexico. *Trans. Amer. micr. Soc.* **79** : 341-342.
- Spasskaya, L. P.** Ökologische Analyse der Bandwurm-Fauna von Vögeln der A.S.S.R. Komi. *Acta Vet. hung.* **8** 1958 : 173-185 11 figs. [Russian with German summary].
- [Spasskaya, L. P. & Kopaev, Y. N. Morphological adaptation of the eggs of tapeworms]. *Acta Vet. hung.* **9** 1959 : 393-398 6 figs.
- Spasskaja, L. P. & Spasskij, A. A.** K faune cestod ptic Jakuti (soobščenije III-je). *Česk. Parasit.* **7** : 313-341 13 figs.
- Spasskij, A. A.** Obzor zoologičeskoj sistemy cepnej (Cestoda : Cyclophyllidae). *Česk. Parasit.* **7** : 309-311.
- Spassky, A. A. & Roitman, V. A.** Fauna of Trematodes, cestods and Acanthocephala of the Upper Enisey fishes. *Ichthyol. Problems* **15** : 183-192.
- Spassky, A. A. & Sonin, M. J.** *Ornithofilaria tuensis* sp. n., a new filaria from the subcutaneous tissue of gallinaceous birds. *Acta Vet. hung.* **8** 1958 : 305-318 8 figs.
- Spasskij, A. A.** see Spasskaja, L. P.
- Spindel, W.** see Gross, P. R.
- Sprau, F.** Über ein vermutlich pflanzenschädigendes Auftreten eines freilebenden Nematoden, *Longidorus maximus* (Bütschli) an einer Reihe von Kulturpflanzen. *Nematologica Suppl.* **II** : 49-55 2 pls.
- Sprent, J. F. A. & Mines, J. J.** A new species of *Amplificaecum* (Nematoda) from the carpet snake (*Morelia argus variegatus*) : with a redefinition and a key for the genus. *Parasitology* **50** : 183-198 20 figs.
- Srivastava, H. D.** see Sinha, P. K.
- Srivastava, J. S.** see Pande, B. P.
- Stagni, A.** see Vannini, E.
- Stam, A. B.** Un cas mortel d'ascaridiose (*Ascaris lumbricoides* L.) chez le chimpanzé nain (*Pan paniscus* Schwartz). *Ann. Parasit. hum. comp.* **35** : 675.
- Stanley, E. A.** Some Mississippian Conodonts from the High Resistivity Shale of the Nancy Weston No. 1 well in Northeastern Mississippi. *J. Paleont.* **32** 1958 : 459-476 6 pls. figs.
- Stauber, L. A.** A goal for parasitologists. *Proc. helminth. Soc. Washington* **27** : 227-231.
- Stebayev, I. V.** Soil invertebrates of Salikhard tundra and changes of their groups under the influence of agriculture. *Zool. Zh.* **38** 1959 : 1559-1572. [English summary].
- Stegman, LeR. C.** A preliminary survey of earthworms of the Tully forest in central New York. *Ecology* **41** : 779-782.
- Stelter, H. & Rauber, A.** Untersuchungen über den Kartoffelnematoden (*Heterodera rostochiensis* Wollenweber). VII. Weitere Untersuchungen über die Veränderung einer Nematodenpopulation unter den Einfluss widerstandsfähiger und anfälliger Kartoffelvarietäten in Topfversuchen. *Biol. Zbl.* **79** : 455-463 6 figs.
- Stemerding, S.** The influence of different rotations on a population of pea cyst eelworm, *Heterodera gottingiana* Liebscher. *Nematologica Suppl.* **II** pp. 97-100.
- Stépánek, M. & Červenková, E.** Limnological study of the reservoir Sedlice near Zeliv. VIII. The horizontal distribution of zooplankton in different sections of the reservoir (Protozoa, Rotatoria, Crustacea). *Sb. Vys. Škol. Chem.-Tech. Praze, Odd. Fac. tech. paliv a vody* **3** 1959 : 317-362 21 figs. [English summary].
- Stéphan-Dubois, F. (1).** Potassium et régénération caudale de *Nereis diversicolor* (Annélide Polychète). *C.R. Soc. Biol. Paris* **153** : 1590-1594 2 figs.

- Stéphan-Dubois, F. (2).** Le chlorure de magnésium dans la régénération postérieure de *Nereis diversicolor* (Annélide Polychète). C.R. Soc. Biol. Paris 153 : 1852-1856 2 figs.
- Stéphan-Dubois, F. & Kolmayer, S.** La migration et la différenciation des cellules de régénération chez la Planaire *Dendrocoelum lacteum*. C.R. Soc. Biol. Paris 153 : 1856-1858 2 figs.
- Stéphan-Dubois, F.** see Kolmayer, S.
- Steshenko, V. M.** see Gagarin, V. G.
- Stevens, A. J.** see Thomas, R. J.
- Stirewalt, M. A.** Change in schistosome larvae and in mouse host skin during migration of the parasites. J. Parasit. 46 5 Sect. 2 : 21. [Abstract].
- Stone, G. L. & Furnish, W. M.** Bighorn conodonts from Wyoming. J. Paleont. 33 1959 : 211-228 2 pls.
- Stone, L. E. W.** Field experiments on cereal root eelworm. Ann. Appl. Biol. 48 : 681-686.
- Stoppel, D.** see Bischoff, G.
- Stoppel, D.** see Schriel, W.
- Stransky, E. & Lorenzo, A. S.** On railletiniasis in the Philippines. Acta Trop., Basel 17 : 80-84.
- Streeter, D. T.** Some notes on the distribution of the Turbellaria-Tricladida in the Cranbrook district. Trans. Kent Fld. Cl. 1 1957 : 43-46.
- Strelkow, J. A.** Endoparasitic worms of marine fishes of East Kamchatka. Trav. Inst. zool. Acad. Sci. U.R.S.S. 28 : 147-196 4 figs. [English summary].
- Strelkow, J. A.** see Gussev, A. V.
- Stretch, R. G. A., Stretch, S. J. E., Leytham, G. W. H. & Kershaw, W. E.** The effect of schistosomiasis upon discrimination learning and activity in mice. I. An acute infection. Ann. trop. Med. Parasit. 54 : 376-380 2 figs.
- Stretch, S. J. E.** see Stretch, R. G. A.
- Streu, H. T.** see Hutchinson, M. J.
- Stumm, E. C. & Wright, J. D.** Check list of fossil invertebrates described from the Middle Devonian rocks of the Thedford-Arkona region of Southwestern Ontario. Contr. Mus. Paleont. Univ. Mich. 14 1958 : 81-132.
- Stunkard, H. W. (1).** Problems of generic and specific determination in digenetic trematodes with special reference to the genus *Microphallus* Ward, 1901. in Libro homenaje al Dr. Eduardo Caballero y Caballero, Jubileo 1930-1960. Mexico, D.F. (Instituto Politécnico Nacional) : 299-309.
- Stunkard, H. W. (2).** Studies on the morphology and life-history of *Notocotylus minutus* n. sp., a digenetic trematode from ducks. J. Parasit. 46 : 803-809 1 pl.
- Styczynska-Jurewicz, E.** Expansion of cercarial of *Diplostomum spathaceum* Rud. 1819, a common parasite of fishes, in the littoral zone of the lake. Polsk. Arch. Hydrobiol. 6 1959 : 105-116 8 figs.
- Suárez-Casabro, J. A. & Madruga, J. E.** The Chaetognatha of the northeastern coast of Honduras, Central America. Bull. mar. Sci. Gulf & Caribbean 10 : 421-429 3 figs.
- Suguro, T.** see Yokogawa, M.
- Sulgostowska, T. (1).** Intestinal trematodes of birds of mesotrophic lakes : Goldapiwo and Mamry Pólcne. Acta Parasit. polon. 8 : 86-114 3 figs.
- Sulgostowska, T. (2).** Extra-intestinal trematodes in birds of the mesotrophic lakes : Goldapiwo and Mamry Pólcne. Acta Parasit. polon. 8 : 471-492 4 figs.
- Sveshnikov, V. A.** Pelagic larvae of some polychaeta in the White Sea. Zool. Zh. 39 : 343-355 4 figs. [English summary].
- Swanson, G. A., Erickson, H. R. & Mackiewicz, J. S.** Swimmers' itch in farm ponds in New York State. New York Fish & Game J. 7 : 77-79.
- Swarup, H.** Parasitic infection in *Gasterosteus aculeatus* (L.) reared in the laboratory aquaria. J. Univ. Saugar 7 1958 : 93-95 3 figs.
- Sweet, W. C., Turco, C. A., Warner, E. & Wilkie, L. C.** The American Upper Ordovician standard. I. Eden conodonts from the Cincinnati region of Ohio and Kentucky. J. Paleont. 33 1959 : 1029-1068 4 pls. fig.
- Sweet, W. C.** see Pulse, R. R.
- Sylvester, R. K.** Scolecodonts from Central Missouri. J. Paleont. 33 1959 : 33-49 2 pls. figs.
- Szymes, C. B.** A note on *Diriofilaria immitis* and its vectors in Fiji. J. Helminth. 34 : 39-42 6 figs.
- Symons, L. E. A.** Pathology of infestation of the rat with *Nippostrongylus muris* (Yokogawa). II. Chemical constituents of the jejunum and dry weight of the rumen. III. Jejunal flukes *in vivo* of water, sodium, and chloride. IV. The absorption of glucose and histidine. V. Protein digestion. Aust. J. biol. Sci. 13 : 163-187, 578-583.
- Syni Sho-Tai, & Boev, S. N.** On the lung nematodes of sheep in the Gansu Province in China. Trud. Inst. Zool. Alma-Ata 12 : 109-114 6 figs. [In Russian].
- Sytinski, I. A.** see Vereshchagin, S. M.
- Szanto, J.** see Levine, N. D.
- Szidat, L.** La parasitología como Ciencia auxiliar para develar problemas hidrobiológicos, zoogeográficos y geofísicos del Atlántico Sud. in Libro homenaje al Dr. Eduardo Caballero y Caballero, Jubileo 1930-1960. Mexico, D.F. (Instituto Politécnico Nacional) : 577-594.
- Szidat, L. & Czibulinski de Szidat, U.** Eine neue, Dermatitis erzeugende Cercarie der Trematoden-Familie Schistosomidae aus *Tropicorbis peregrinus* (D'Orbigny) des Rio Quequén. Z. Parasit. 20 : 359-367 9 figs.
- Taffs, L. F.** Immunization of guineapigs against *Ascaris suum*. J. Helminth. 34 : 347-348.
- Tampi, P. R. S. (1).** The ecological and fisheries characteristics of a salt water lagoon near Mandapam. J. mar. biol. Ass. India 1 : 113-130 2 figs.
- Tampi, P. R. S. (2).** An ingenious method of collecting polychaete worms for fish bait. J. mar. biol. Ass. India 1 : 250-251.
- Tandon, R. S. (1).** Development and morphology of the miracidium of *Paramphistomum gotoi* Fukui, 1926, an amphistome (Trematoda) from the rumen of cattle in India. Annot. zool. jap. 33 : 178-183 13 figs.
- Tandon, R. S. (2).** Studies on the lymphatic system of amphistomes of ruminants : 1. *Carmynerius spatiosus* (Stiles & Goldberger, 1910) ; 2. The genera *Gastrothylax* and *Fischoderius*. Zool. Anz. 164 : 213-217 fig.; 217-221 figs.
- Tani, T.** see Morishita, K.

Tasch, P. Significance of conodont control of pellet formation in the basal Maquoketa. *Micropaleontology* 4 1958 : 187-191 figs.

Tatge, U. Conodonten aus dem germanischen Muschelkalk. 1-11 Teil. *Paläont. Z.* 30 1-2 1956 : 108-127 2 pls. fig. and 30 3-4 1956 : 129-147.

Tauji, M. see Yokogawa, M.

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Taylor, A. E. R., Ball, G. H. & Voge, M. Studies on the axenic culture of the rodent tape-worms, *Hymenolepis diminuta* and *H. nana*. *J. Parasit.* 46 5 Sect. 2 : 11. [Abstract].

Teichmüller, M. see Schmidt, W.

Teixeira de Freitas, J. F. (1). Estudos sobre Schrankianidae fam. nov. (Nematoda, Subuluroidea). *Arq. Mus. Nac. Rio de Janeiro* 1959 49 : 9-67 77 figs.

Teixeira de Freitas, J. F. (2). Nota sobre *Tanaisia inopina* Freitas, 1951 (Trematoda, Eucotylidae). *Atas Soc. Biol. Rio Jan.* 3 6 1959 : 2-4 fig.

Teixeira de Freitas, J. F. (3). Rápidas informações sobre hospedeadores e distribuição geográfica de alguns trematódeos parasitos de batráquios. *Atas Soc. Biol. Rio Jan.* 4 : 29-32.

Teixeira de Freitas, J. F. (4). *Edcaballerotrema eduardocaballeroi* g. n. sp. n. e nota sobre o hospedeador tipo de *Ochoterenatrema caballeroi* Freitas, 1957 (Trematoda, Lecithodendriidae). in *Libro homenaje al Dr. Eduardo Caballero y Caballero*, Jubileo 1930-1960. Mexico, D.F. (Instituto Politécnico Nacional) : 129-132 fig.

Teixeira de Freitas, T. F. (5). Sobre um novo parasito de anfíbio : "*Maicuru solitarium*" g. n., sp. n. (Trematoda Plagiorchiidae). *Bol. Mus. Para. Emilio Goeldi* 30 : 1-4 fig.

Teixeira de Freitas, J. F. (6). Sobre uma nova espécie do gênero "*Prosthodendrium*" Dollfus, 1931. (Trematoda, Lecithodendriidae). *Rev. bras. Biol.* 20 : 263-268 figs.

Teixeira de Freitas, J. F. & Dobbin, J. E., Jr. (1). *Telorchis diaphanus* sp. n., trematódeo parasito de quelônio. *An. Soc. biol. Pernambuco* 16 1959 : 191-199 4 pls.

Teixeira de Freitas, J. F. & Dobbin, J. E., Jr. (2). Nova espécie do gênero *Parapharyngodon* Chatterji 1933 (Nematoda, Oxyuroidea). *An. Soc. biol. Pernambuco* 16 1959 : 23-33 3 pls.

Teixeira de Freitas, J. F. & Jorge da Silva, A. A. Alguns nematódeos parasitoses de *Gallus gallus* Dom. (L.) no estado da Bahia. *Mem. Inst. O Cruz* 58 : 189-207 31 figs.

Teixeira de Freitas, J. F. & Machado de Mendonça, J. (1). Novo nematódeo parasito de *Procyon cancrivorus* Cuv. : *Pearsonema pearsoni* gen. nov., sp. nov. (Trichuroidea, Capillariidae). *Atas Soc. Biol. Rio Jan.* 4 : 63-66 10 figs.

Teixeira de Freitas, J. F. & Machado de Mendonça, J. (2). Nota previa sobre nova *Capillaria* parasita de jandaia (Nematoda, Trichuroidea). *Atas Soc. Biol. Rio Jan.* 3 : 2-3.

Teixeira de Freitas, J. F. & Machado de Mendonça, J. (3). Novo gênero de "Graphidiinae" Travassos, 1937 (Nematoda, Strongyloidea). *Rev. bras. Biol.* 19 : 387-392.

Teixeira de Freitas, J. F. & Machado de Mendonça, J. (4). Novo nematódeo do gênero *Pterothomins* Freitas, 1959 (Trichuroidea, Capillariidae). *Rev. bras. Biol.* 20 : 269-272 9 figs.

Teixeira de Freitas, J. F. & Machado de Mendonça, J. (5). Novo nematódeo tricostrongilídeo parasito de quiróptero. *Bol. Mus. Para. Emilio Goeldi.* 29 : 1-4 8 figs.

Tembe, V. B. & Dubashi, P. J. A preliminary note on the culture and development of Indian earthworms. *J. Bombay nat. Hist. Soc.* 56 : 643-646 fig.

Tendeiro, J. Sur une nouvelle espèce de trématode monogénétique, *Microcotyle eduardoi* n. sp. (Diclidophoroidea, Microcotylidae), parasite du *Pomadasys suillus* (Cuvier et Valenciennes) (Pisces, Teleostei). in *Libro homenaje al Dr. Eduardo Caballero y Caballero*, Jubileo 1930-1960. Mexico, D.F. (Instituto Politécnico Nacional) : 311-314 2 pls.

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Termier, H. & Termier, G. Paléontologie stratigraphique : 1-515 figs. Paris.

Teshirogi, W. & Yamada, M. On the frequencies of genital organ-formation in the transverse cut-pieces of a planarian, *Bdellocephala brunnea* cultured under various conditions. *Zool. Mag., Tokyo* 69 : 209-215. [English summary].

Thapar, G. S. A new genus of amphistomatous parasite from the intestine of a fish, *Cirrhinus fulungel*, from India. in *Libro homenaje al Dr. Eduardo Caballero y Caballero*, Jubileo 1930-1960. Mexico, D.F. (Instituto Politécnico Nacional) : 315-320 fig.

Thatcher, V. E. see Sparks, A. K.

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- Thompson, P. E.** see Meisenhelder, J. E.
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- Tokobaev, M. M.** Helminths of some species of Microtinae in Kirgizia. Izv. Akad. Nauk. Kirgiz. S.S.R. (Biol.) **1** 1959: 159-167. [In Russian].
- Torbert, B. J.** see Mayhew, R. L.
- Torii, H.** A consideration of the distribution of some troglolobions of Japanese caves. Jap. J. Zool. **12**: 555-584.
- Trautman, R. J.** see Dewhirst, L. W.
- Trautwein, H. & Wittekindt, H.** Ein Devon-Karbon-Profil bei Weilburg/Lahn und seine Bedeutung. Neues Jb. Geol. Paläont. **1960**: 469-477.
- Travassos, L.** Sobre nematódeos cavitários de peixes do Rio Amazonas. Atas Soc. Biol. Rio de J. **4**: 15-20 14 figs. Also 13-.
- Travassos, L. & Kloss, G. R.** Sobre o gênero *Rondonema* Artigas, 1926 (Nematoda). in Libro homenaje al Dr. Eduardo Caballero y Caballero, Jubileo 1930-1960. Mexico, D.F. (Instituto Politécnico Nacional): 511-519 10 figs.
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- Turner, J. H. & Wilson, G. I.** The effect of three different exposures to parasitism on the serum proteins of Shropshire lambs. J. Parasit. **46** 5 Sect. 2: 29. [Abstract].
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- Ulmer, M. J.** see Odetoynbo, J. A.
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- Urquhart, G. M.** see Jarrett, W. F. H.
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- Vajrasthira, S. & Harinasuta, C.** The incidence of enterobiasis among children at five schools and two hospitals in Bangkok. Ann. trop. Med. Parasit. **54** : 129-131.
- Vajrasthira, S.** see Harinasuta, C.
- Vandermerssche, G.** see Semal-Van Gansen, P.
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- Varga, L.** Rotatorien aus dem Garam-Flusse. Opusc. Zool. Budapest **2** 1957 : 65-69.
- Varga, L.** see Kol. E.
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- Vergin, G. I.** see Shevchenko, N. N.
- Vernberg, W. B.** see Hunter, W. S.
- Vibe, P. P.** The role of farm animals in the life cycle of *Echinococcus multilocularis* Leuckart, 1863. Dokl. Akad. Nauk S.S.S.R. (Transl.) Biol. Sci. **129** 1-6 1959 : 1050-1051. Dokl. Akad. Nauk S.S.S.R. **129** 1959 : 471-473.
- Vigliierchio, D. R. & Lownsbey, B. F.** The hatching response of *Meloidogyne* species to the emanations from the roots of germinating tomatoes. Nematologica **5** : 153-157 3 figs.
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- Voge, M.** see Taylor, A. E. R.
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- Voigt, E.** Ein parasitischer Nematode in fossiler Coleopteren-Muskulatur aus der eoänen Braunkohle des Geiseltales bei Halle (Saale). Paläont. Z. **31** 1957 : 35-39 1 pl.
- Vokes, H. E.** Miocene fossils of Maryland. Bull. Md. Dep. Geol. **20** 1957 : VII 1-85 31 pls.
- von Mechow Lewis, F. & Mai, W. F.** Survival of encysted and free larvae of the golden nematode in relation to temperature and relative humidity. Proc. helminth. Soc. Wash. **27** : 80-85.
- Wagh, P. V.** see Kewalramani, H. G.
- Waletz, J. A.** *Telorchis bonnerensis* n. sp. (Trematoda : Digenea) from the intestine of larval *Ambystoma macrodactylum* Baird, from northern Idaho. J. Parasit. **46** : 815-818 1 pl.
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- Wallace, H. R. (2).** Observations on the behaviour of *Aphelenchoides ritzema-bosi* in chrysanthemum leaves. Nematologica 5 : 315-321 4 figs.
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- Webby, B. D.** A lower Mesozoic annelid from Rock Point, South-western Wellington, New Zealand. N.Z. J. geol. geophys. 1 1958 : 509-513 figs.
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- Wessing, A.** Untersuchungen zur Frage der pluralen Natur der Keimzellenchromosomen von Nematoden. Verh. dtsch. zool. Ges. 1959 [1960] : 73-81 2 figs.
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- Williams, H. H. (3).** *Winkenthughesia bramae* (Parona & Perugia, 1896) a rare monogenetic trematode and a new record for the British Isles. Ann. Mag. nat. Hist. (13) 2 1959 [1960] : 551-559 13 figs.

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Williams, J. B. (2). The dimorphism of *Polystoma integerrimum* (Frolich) Rudolphi and its bearing on relationships within the Polystomatidae: Part II. *J. Helminth.* **34**: 323-346 4 figs. 1 pl.

Williams, J. R. Studies on the nematode soil fauna of sugarcane fields in Mauritius. 5. Notes upon a parasite of root-knot nematodes. *Nematologica* **5**: 37-42 1 pl. 1 text-fig.

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Williams, P. Studies on Ethiopian *Chrysops* as possible vectors of loiasis. II. *Chrysops silacca* Austen and human loiasis. *Ann. trop. Med. Parasit.* **54**: 439-459 49 figs.

Williams, R. W. Observations on the life history of *Rhabdias sphaerocephala* Goodey, 1924 from *Bufo marinus* L., in the Bermuda Islands. *J. Helminth.* **34**: 93-98 1 pl.

Willmott, S. The morphology of *Brumptia bicaudata* (Poirier, 1908) Odhner, 1926 (Trematoda: Paramphistomidae). *Proc. zool. Soc. Lond.* **134**: 623-634 9 figs.

Wilson, D. M. Nervous control of movement in annelids. *J. exp. Biol.* **37**: 46-56 3 figs.

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Winter, H. A. (2). La familia *Gyliauchenidae* Ozaki, 1933 (Trematode: Digenea) y descripción de *Ichthyotrema vogelsangi* Caballero et Bravo, 1953. in *Libro homenaje al Dr. Eduardo Caballero y Caballero, Jubileo 1930-1960*. Mexico, D.F. (Instituto Politécnico Nacional): 337-343 fig.

Wisely, B. Observations on the settling behaviour of larvae of the tubeworm *Spirorbis borealis* Daudin (Polychaeta). *Aust. J. mar. freshw. Res.* **2**: 55-72 1 pl. 8 figs.

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Wolff, T. The hadal community, an introduction. *Deep-Sea Res.* **6**: 95-124.

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Wu, L.-Y. (2). Comparative study of *Diitylenchus destructor* Thorne, 1945 (Nematoda: Tylenchidae), from potato, bulbous iris, and dahlia, with a discussion of de Man's ratios. *Canad. J. Zool.* **38**: 1175-1187 6 figs.

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Wulfert, K. (2). Die Rädertiere saurer Gewässer der Dübener Heide. II. Die Rotatorien des Krebscherentümpels bei Winkelmühle. *Arch. Hydrobiol.* **56**: 311-333 24 figs.

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Yamaguti, S. (2). Studies on the helminth fauna of Japan. Part 56. Cestodes of fishes, III. *Publ. Seto mar. biol. Lab.* **8**: 41-50 2 pls.

Yamamoto, K. (1). Rotifer fauna of Japanese inland waters. *Jap. J. Limnol.* **14** 1949: 39-46 1 pl.

Yamamoto, K. (2). Rotifer fauna of Japanese inland waters (2). *Jap. J. Limnol.* **14** 1949: 91-98 1 pl. [Japanese].

Yamamoto, K. (3). Rotifer fauna of Japanese inland waters (3). *Jap. J. Limnol.* **14** 1949: 141-145 1 pl. [Japanese].

Yamamoto, K. (4). Rotifer fauna of Japanese inland waters (4). *Jap. J. Limnol.* **14** 1950: 189-194 1 pl. [Japanese].

Yamamoto, K. (5). Rotifer fauna of Japanese inland waters. *Jap. J. Limnol.* **15** 1950: 42-50 1 pl. [Japanese: English summary].

- Yamamoto, K. (6).** Rotifer fauna of Japanese inland waters (9). Jap. J. Limnol. **16** 1952 : 81-91 2 pls. [Japanese; English summary].
- Yamamoto, K. (7).** On the distribution of *Kellicottia longispina* (Kellicott) [Rotatoria] in Japanese lakes. Jap. J. Limnol. **20** 1959 : 21-26 2 figs. [English summary].
- Yamamoto, K. (8).** Plankton Rotatoria in Japanese inland waters. Hydrobiologia **16** : 364-412 12 figs.
- Yanchev, Y. & Dozhkov, D.** The biology of the trematode, *Proalaria excavata* Rud. Dokl. Akad. Nauk S.S.S.R. (Transl.) Biol. Sci. **132** : 454-455. (Dokl. Akad. Nauk S.S.S.R. **132** : 726-728. [In Russian].)
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- Zajonc, I. (1).** Beitrag zur Verbreitung und Ökologie des Regenwurms *Eophila antipai* var. *tuberculata* Cernovsikov 1935 (Oligochaetae Lumbriidae). Mém. Soc. zool. tchécosl. **24** : 280-284 3 figs. [German summary].
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- Zhukov, E. V. (1).** On the fauna of parasites of fishes of the Chukotsk Peninsula and the adjoining seas. I. Monogenetic trematodes of marine and freshwater fishes. Mag. Parasit., Leningr. **19** : 308-332 13 figs.
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- Zicsi, A. (2).** Beiträge zur Kenntnis der ungarischen Lumbriciden-Fauna. 2. Opusc. Zool. Budapest **3** 1959 : 95-100 1 fig.
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- Ziegler, W. (2).** *Ancyrolepis* n. gen. (Conodontia) aus dem höchsten Teil der Manticoceras-Stufe. Neues Jb. Geol. Paläont. Abh. **108** 1959 : 75-80 1 pl.
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Incidence of *Fasciola hepatica* in basin of R. Barycz, **Bednarsz, S.** (1); Autoctonous human hydatid infection in Mexico, **Biagi F. F. & Mekbel A. S.**; *Schistosoma mansoni* in Madagascar, **Capron, A. & Brygoo, E. R.** (1); Vesical schistosomiasis in Angola, **Carvalho, R. G. de**; Seasonal fluctuations in larval trematode infections, **Cort, W. W. et al.** (3); Schistosomiasis in southern Tunisia, **Coumbaras, A.**; Incidence of *Hymenolepis nana* in Albanian children, **Erhardova, B. et al.**; Human fascioliasis in Hampshire, **Facey, R. V. & Marsden, P. H.**; Schistosomiasis in Angola, **Ferreira, E. G. & Gomes, J. A.**; Incidence of *Diphyllbothrium* larvae in trout in Britain, **Fraser, P. G.** (1); Cysticercus and hydatid infection of Kenyan cattle, **Froyd, G. (1)**; Incidence of *Fasciola gigantica* and *Echinococcus* in Kenya cattle, **Froyd, G.** (2); Incidence of anoplocephalid cestodes in sheep in Kirgizia, **Gagarin, V. G. et al.**; Human sparganosis in the U.S.A., **Gleason, N. N.**; Opisthorchiasis in Thailand, **Harinasuta, C. & Vajrasthira, S.**; Epidemiology of *Fasciolopsis buski* in South Taiwan, **Hsien-chen, H.** (2); Schistosome dermatitis in Colorado, **Hunter, G. W.** (2); Prevalence of fascioliasis in Japan, **Itagaki, H.**; Seasonal distribution of fish parasites of Rybinsk Reservoir, **Izyumova, N. A.** (2); Schistosomiasis in Khartoum Prov., Sudan, **Malek, E. A.** (1); Schistosomiasis among southern islands of Lake Kivu, **Meyus, H. et al.**; Pulmonary paragonimiasis in the Philippines, **Monserat, C. & Buenaventura, A.**; Schistosomiasis in Mozambique, **Morais, T. de** (2); Human helminthiasis in Near and Middle East, **Mumford, E. P.**; Incidence of helminths among out-patients at Ezbet-El-Burg, Egypt, **Nagaty, H. F. & Khalil, H. M.** (2); Fasciolosis in Lithuania, **Paulyukonis, F. V.**; Quantitative indices of helminths in fishes, **Petrushevsky, G. K. & Petrushevskaya, M. G.**; Hydatid disease in Alaska, **Rausch, R. L.** (1); Paragonimiasis in South Korea, **Sadun, E. H. & Buck, A. A.**; Ecology of opisthorchiasis, **Shol, V. A.** (1); Seasonal incidence of furcocercariae in *Indoplanorbis exustus*, **Singh, R. N.** (9); Incidence of tapeworms in birds in the Komi A.S.S.R., **Spasskaya, L. P.**

Control.—Efficacy of piperazine adipate against *Heterophyes*, **Nagaty, H. F. & Khalil, H. M.** (1); Past and present treatment of schistosomiasis, **Nagaty, H. F. & Rifaat, M. A.**; Antibilharzial effect of new thioxanthane compound, **Nagaty, H. F. et al.**; Efficacy of dithiazine against *Hymenolepis nana* in children, **Ricci, M. & Gagliano, E.**

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Coelenterata.—Accacoliid metacercariae in coelenterates, **Dollfus, R. P.** (6).

Chaetognatha.—Trematodes from chaetognaths, **Dollfus, R. P.** (2); Accacoliid metacercariae in chaetognaths, **Dollfus, R. P.** (6).

Annelida.—Furcocercariae encysting in leeches, **Wales, Iles, C.**; Cysticercoids of *Aplorhynchus furciger* in *Limnodrilus* sp., Poland, **Jarecka, L.** (1).

Echinodermata.—Rhabdocoelae from echinoderms, **Hyman, L. H.** (2).

Mollusca.—*Cerithidea californica* as interhost of *Himasthla* sp., California, **Adams, J. E. & Martin, W. E.**; *Philophthalmus* cercaria in *Tarebia granifera mauriensis*, **Alicata, J. E. & Ching, H. L.**; *Philophthalmus* cercaria in *Tarebia granifera mauriensis* and *Melanoides neucombi*, Hawaii, **Alicata, J. E. & Noda,**

K.; Original material of *Cercaria haswelli* redescribed from *Mytilus canaliculatus*, New Zealand, **Angel, L. M.**; *Nanophyetus salmicolae* cercariae in *Oxytrema silicula*, Oregon, **Bennington, E. & Pratt, I.**; *Limnasia peregria* as interhost of *Diplostomum phoxini*, Scotland, **Berrie, A. D.** (1); *Limnasia stagnalis* and *L. limosa* as interhosts of *Plagiocirrus cirratus*, **Buttner, A. & Vacher, C.** (2); *Liga soricis* cysticercoids in land-snails, N. America, **Canaris, A. G.**; *Zonitoides ligeri* and *Agriolimnax agrestis* as interhosts of *Brachycoelium obesum*, Virginia, **Cheng, T. C.** (2); *Sphaerium striatinum* as interhost of *Crepidostomum cornutum*, **Cheng, T. C. & James, H. A.** (1), (2); Hemiuroid cercariae in molluscs of Friday Harbour, Washington State, **Ching, H. L.** (2); New Gorgoderid cercaria in *Pisidium compressum*, Oklahoma, **Coil, W. H.**; *Physa integra* as experimental interhost of *Heronimus chelydrae*, **Crandall, R. B.**; New furcocercaria in *Planorbis carinatus*, Wales, **Erasmus, D. A.**; *Anaplocaucus dilatatus* as interhost of new *Prosthodendrium* sp., Virginia, **Etges, F. J.** (1); *Haematoloechus similis* cercaria in *Planorbis planorbis*, Poland, **Grabda, B.**; *Helisoma* and *Menetus* spp. as interhosts of *Spirochis elegans*, **Goodchild, C. G. & Kirk, D. E.**; *Bulinus* spp. as interhosts of *Carymeris dollfusii* in Madagascar, **Grétilat, S.** (1); Schistosome cercariae from *Gyraulus* sp., California, **Grodhaus, G.**; New virgulate xiphidocercariae in *Goniobasis* and *Pleurocercia* spp., Indiana, **Hall, J. E.** (2); Larval trematodes from snails, Colorado, **Hunter, G. W. & Birkenholz, D. E.**; *Trichobilharzia physellae* in *Physa propinqua*, Colorado, **Hunter, G. W.** (2); Furcocercariae in freshwater molluscs, Wales, **Iles, C.**; Echinostome cercariae in *Limnasia* and *Planorbis* spp. from the London area, **Khan, D.** (1); Gymnophthalmus cercariae in *Bithynia tentaculata*, London area, **Khan, D.** (2); *Limnasia* and *Pseudosuccinea* as interhosts of *Heterobilharzia americana*, Lee, H. F. (2); *Limnasia stagnalis* as interhost of new subsp. of *Plagiocirrus vestertionis*, Washington State, **Macy, R. W.** (1); *Megalodiscus microphagus* cercaria in *Menetus cooperi* and *Gyraulus* sp., Oregon, **Macy, R. W.** (2); *Bulinus forskalii* as interhost of *Gastrodiscus aegyptiacus*, Sudan, **Malek, E. A.** (2); *Cerithidea californica* as interhost of *Acanthoparyphium spinulosum*, **Martin, W. E. & Adams, J. E.**; *Oxytrema silicula* as interhost of *Echinocasmus milvi*, N. America, **McCauley, J. E. & Pratt, I.** (2); Interhosts of *Schistosoma* in Mozambique, **Morais, T. de** (1); *Assimineae* spp. and *Paludinella japonica* as interhosts of *Paragonimus*, **Miyazaki, I. & Yoshida, Y.**; *Mesostephanus kentuckiensis* cercaria in *Goniobasis livescens*, Ohio, **Myer, D. G.**; Cercaria and metacercaria of *Cotylurus brevis* in *Limnasia stagnalis*, England, **Nasir, P.** (1); New Xiphidocercaria in *Limnasia stagnalis*, England, **Nasir, P.** (2); Cercaria of new *Echinostoma* sp. in *Limnasia stagnalis*, England, **Nasir, P.** (3); Cysticercoid of *Choanotamia crassicoles* in *Oxychilus cellarius*, Britain, **Rawson, D. & Rigby, J. E.**; Cercaria of *Astiotrema monticellii* in *Bithynia leachi*, Russia, **Shevchenko, N. N. & Vergin, G. I.**; Two new Striged cercariae from *Limnasia*, Allahabad, **Singh, R. N.** (1); New schistosome cercaria in *Limnasia*, Allahabad, **Singh, R. N.** (2); Two new striged cercariae from snails, Allahabad, **Singh, R. N.** (4); New Striged cercaria from *Limnasia*, Allahabad, **Singh, R. N.** (5); Furcocercariae in *Indoplanorbis exustus* in Allahabad, **Singh, R. N.** (9); *Limnasia luteola* var. *australis* as interhost of *Schistosoma incognitum*, India, **Sinha, P. K. & Srivastava, H. D.**; Polycled commensal of proso-branchs, **Smith, E. H.**; *Galactosomum* cercaria in *Cerithium muscarum*, Florida, **Sogandares-Bernal, F. & Hutton, R. F.** (1); Cercaria of new *Notocotylus* sp. in *Hydrobia minuta*, Maine, **Stunkard, H. W.** (2); New

schistosome cercaria in *Tropicorbis peregrinus*, Argentina, Szidat, L. & Czibulinski, de Szidat, U.; *Helicopsis arenosa* as interhost of *Dicrocoelioides petiolatum*, Timon-David, J. (2); *Physa sayii* an interhost for *Heronimus chelydrae*, Iowa, Ulmer, M. J. (1); *Deroceas laevis* as first interhost of *Panopisthus pricei*, Villella, J. B.; Terrestrial molluscs as interhosts of helminths, Zdárská, Z.

Crustacea.—*Plagiiorchis cirratus* metacercaria in *Gammarus pulex*, Buttner, A. & Vacher, C. (1); *Gammarus pulex* and *Asellus aquaticus* as interhosts of *Plagiiorchis cirratus*, Buttner, A. & Vacher, C. (2); *Crepidostomum cornutum* metacercariae in *Cambarus bartoni* sciotensis, Virginia, Cheng, T. C. & James, H. A. (2); *Cyclops s. strenuus* as experimental interhost of *Hymenolepis vistulae*, Czaplinski, B.; Microphallid metacercariae from Crustacea in English Channel, Deblock, S.; Microphallid metacercariae from Crustacea in the Pas de Calais, Deblock, S. et al.; *Parathelphusa ceylonensis* as second interhost of *Pleurogenoides sitapuri*, Dissanaike, A. S. & Fernando, C. H.; *Diapomus* and *Cyclops* spp. as experimental interhosts of *Diphyllobothrium medium*, Fraser, P. G. (3); *Copepoda* and *Cladocera* as interhosts of cestodes in Lake Goldapiwo, Poland, Jarecka, L. (1); *Copepods* as interhosts of *Diplosteph* spp., Poland, Jarecka, L. (2); Crustaceans as interhosts of new *Fimbraria* sp., Far East, Korel'nikov, G. A.; *Cyclops bicuspidatus* as interhost of *Marsipometa hastata*, Meyer, F. P.; Helminths in benthic crustaceans of Barents Sea, Ouspenskaja, A. V.; *Copepods* as interhosts of *Drepanidotaenia praevalskii*, Petrochenko, V. I.; Metacercariae in *Gammarus pulex*, France, Timon-David, J. (1); *Armadillo vulgaris* and *Armadillo officinalis* as interhosts of *Dicrocoelioides petiolatum*, Timon-David, J. (2); *Copepods* as experimental interhosts of *Trianaophorus* spp., Watson, N. H. F. & Price, J. L.

Insecta.—*Hymenolepis prolifer* larva in *Glomeris hexasticha*, Baer, J. & Santa, E. della; Possible auto-vectors of *Dicrocoelium dendriticum*, Brangham, A. N. (1), (2); Metacercaria of new *Prosthodendrium* sp. in *Hexagenia bilineata*, Virginia, Etges, F. J. (1); Metacercaria of *Haematolechus similis* in *Coenagrion* sp., Poland, Grabda, B.; Insect larvae as interhosts of *Hymenolepis multistriata* and *Tatria decacantha*, Golikova, M. N.; Lecithodendriid metacercariae in naiads, Indiana and Michigan, Hall, J. E. (1); *Glomeris connexa* as interhost of *Pseudodicrochis prolifer*, Poland, Kisielewska, K. (1); *Geotrupes stercorarius* as interhost of *Soricinia diaphana* and *Staphylocystis furcata*, Poland, Kisielewska, K. K. (2); Insect larvae as experimental interhosts of new subsp. of *Plagiiorchis vespertilionis*, N. America, Macy, R. W. (1).

Acari.—*Protoschelobates* as potential vector of *Moniezia* spp. of sheep in India, Nadakal, A. M. (3); Interhosts of *Moniezia*, *Thysanotia* and *Avitellina* in Kazakhstan, Sokolova, I. B. & Panin, V. Y.

Fishes.—Helminths of fish in Kustanaik Province, Agapova, A. I.; Helminths of fish in Kazakhstan, Agapova, A. I. & Maksimova, A. P.; *Diplostomum phoxinus* metacercaria in *Phoxinus phoxinus*, Scotland, Berrie, A. D. (1); Two types of *Diplostomum* larvae in eyes of *Gasterosteus aculeatus*, Scotland, Berrie, A. D. (2); New Microcotyle sp. from *Trachurus*, Mexico, Bravo-Hollis, M.; Two new Monogenean genera on Pacific fishes, Caballero y C., E. & Bravo-Hollis, M.; Digenea in fishes of Friday Harbour, Washington, Ching, H. L. (1); New *Crepidostoma* sp. in trout, Turkey, Coll, W. H. & Kuntz, R. E. (1); Trematodes from fishes in E. Pakistan, Coll, W. H. & Kuntz, R. E. (3);

Transversotrema patialense metacercaria in *Macropodus cupanus*, Ceylon, Cruz, H. & Sathananthan, A. H.; Digenea in gobiids from Naples and Bahamas, De Giusti, D. L. & Nasir, P.; *Hemius communis* re-described from *Salmo trutta*, *Raniceps raninus* and other fishes, Sweden, Dollfus, R. P. (7); New *Lomasoma* sp. in *Solea solea*, Banyuls, Dollfus, R. P. (8); *Isoparorchis trisimilitubis* in *Tylosurus annulatus* and *Ophecephalus striatus*, Viet-Nam, Dollfus, R. P. (9); Platyhelminths from *Melanoglaea ventralis*, Senegal, Dollfus, R. P. (11); Two new *Schistocephalus* spp. larvae in Russian fishes, Dubinina, M. N.; Helminths from fishes, Albania, Ergens, R. (2); New Plectanocotylid trematode on *Peristhedion cataphractum*, Golfe du Lion, France, Ezet, L. & Trilles, J. P. (1); Two new Monogenea on *Sphyræna sphyraena*, France, Ezet, L. & Trilles, J. P. (2); New *Calicotyle* sp. from *Mustelus*, Mediterranean, Ezet, L. & Williams, H. H.; *Diphyllobothrium medium* plerocercoids in trout, Britain, Fraser, P. G. (3); Digenea and Cestoda from salmonoids in North Pacific, Fukui, T.; *Ancylostoides* from Silurids of the Far-East, Gussev, A. V. & Strelikov, J. A.; Helminths of fish acclimatised in Bakhshaliik basin, Gvozdev, E. V. & Agapova, A. I.; Helminths from catfishes, Kansas, Harms, C. E.; *Cardiocephalus brandesi* larvae in *Mugil cephalus* and *Menidia menidia*, N. America, Hunter, W. S. & Vernberg, W. B.; Helminths from fishes, Florida, Hutton, R. F. & Sogandares-Bernal, F. (1); Monogenea from carp, Russia, Isjumova, N. A. (1); Helminths of fishes in Rybinsk Reservoir, Isjumova, N. A. (2); New Dactylogyrid monogeneans on Indian fishes, Jain, S. L.; *Protocephalus sandoni* re-described from *Heterotis*, Sudan, Khalil, L. F. (1); Helminths of economic fishes of Kazakhstan, Kolesnikova, M. N.; Monogenea from fishes in the eastern Indo-Pacific, Koratha, K. J. (2); *Otodistomum* sp. and *Gyrocotyle* sp. in *Hydrologus collicii*, Baja California, Koratha, K. J. (3); *Neodiplostomum pseudotrematum* metacercaria in brain and eyes of *Scardinius erythrophthalmus*, Poland, Kozicka, J.; Metacercaria of new *Tylodelphys* sp. in *Perca*, *Acerina* and *Lota* spp., Poland, Kozicka, J. & Niewiadomska, K. (1); Fishes as interhosts of *Tylodelphys clavata* in Polish lakes, Kozicka, J. & Niewiadomska, K. (2); Helminths from fishes, Kurašvili, B.; *Odhneriotrema incommodum* metacercaria in ovaries of *Lepistosteus platyrhincus*, Leigh, W. H.; Amphibellid monogeneans from electric rays, Llewellyn, J.; New *Protocephalus* sp. in *Heterotis niloticus*, Sudan, Lynsdale, J. A.; Digenean trematodes from New Zealand fishes, Manter, H. W.; New Digenea from Hawaiian eels, Manter, H. W. & Pritchard, M. H. (1); Hemiurid trematodes from Hawaiian fishes, Manter, H. W. & Pritchard, M. H. (2), (3); New Opcoelid trematodes from Hawaiian fishes, Martin, W. E. (1); New Sanguinicolid trematode in balloon-fish Hawaii, Martin, W. E. (2); New *Dactylostomum* sp. in *Pseudupeneus*, Hawaii, Martin, W. E. (3); Hemiurid trematodes from marine fishes, Oregon, McCauley, J. E.; Helminths of cyprinids in R. Kura, Mikhailov, T. K.; *Mazocraes alasae* on *Alasa* sp. in the Caspian Sea, Nebolsina, T. K.; Molluscan interhosts of *Tylodelphys excavata* and *T. clavata*, Poland, Niewiadomska, K.; Cestodes of Black Sea fishes, Pogoreltzeva, T. P.; *Capsala pricei* transferred to *Tristomella* and re-described from giant marlin, off Panama, Price, E. W. (1); Two new digenetic trematodes from Hawaiian fishes, Pritchard, M. H.; New *Dactylogyrus* sp. on gills of *Rutilus*, Poland, Frost, M.; New echinostome trematode in Amazon fish, Prudhoe, S.; Helminths from cyprinids of breeding

ponds, Poland, **Radwan**, S.; New *Heteromicrocotyle* sp. from *Caranx affinis*, India, **Ramalingam**, K. (1); New Bothriocephalid cestode in *Saurida tumbil*, **Rao**, K. H.; Digenea from fishes, Madagascar, **Razarihelina**, M.; New Acanthostome metacercaria in *Atherina mchon*, France, **Rebecq**, J.; Monogenea from Heterosomate in Gulf of St. Lawrence, **Ronald**, K. (1); Digentic trematodes from the Heterosomata of the Gulf of St. Lawrence, **Ronald**, K. (3); New *Dactylogyrus* sp. on gills of *Hybopsis*, Oklahoma, **Seamster**, A.; Helminths of fish in reservoirs of central Kazakhstan, **Sidorov**, E. G. (1); Infection of fish with *Opisthorchis felinus* in the Pavlodarsk Province, **Sidorov**, E. G. (2); *Nandus nandus*, *Belone canicilla* and *Ophicephalus punctatus* as natural interhosts of *Clinostomum piscidium*, India, **Singh**, R. N. (8); New *Diplostomulum* sp. in cyprinoid fisher, Allahabad, **Singh**, R. N. (6); Ascocotyline metacercariae from Louisiana fishes, **Sogandares-Bernal**, F. & **Bridgman**, J. F.; *Galactosomum spinatum* metacercaria in *Hyphorhamphus unifasciatus*, Florida, **Sogandares-Bernal**, F. & **Hutton**, R. F. (1); New *Crassicutis* sp. in a sheephead, Gulf of Mexico, **Sparks**, A. K. & **Thatcher**, V. E.; Helminths from fishes of the Upper Enisey, Russia, **Spassky**, A. A. & **Roitman**, V. A.; Helminths of marine fishes from East Kamchatka, **Strelkow**, J. A.; *Diplostomum spathacum* larvae in *Leucaspis delineatus*, Poland, **Styżńska-Jurewicz**, E.; *Gyrodactylus* on sticklebacks in laboratory aquaria, **Swarup**, H.; New *Microcotyle* sp. from *Pomadour*, W. Africa, **Tendeiro**, J.; New amphistome trematode in *Cirrhinia*, India, **Thapar**, G. S.; Digenea from Ghanaian sub-littoral fishes, **Thomas**, J. D.; *Euclinostomum multicacum* and new *Clinostomum* sp. in *Ophicephalus*, Philippines, **Velasquez**, C. C.; *Parabothrium gadipollachii* and *Abothrium gadi* in gadid of N.E. Atlantic, **Williams**, H. H. (2); Redescription of *Winklenuthesia bramae* from *Brama raii*, W. coast of Scotland, **Williams**, H. H. (3); Helminths from marine fishes off British Isles, **Williams**, H. H. (4); Redescription of *Ichthyotrema vogelsangi*, **Winter**, H. A. (2); Three new cestodes from *Rhinobatus schlegelii*, Japan, **Yamaguti**, S. (2); New *Pyragrophorus* sp. on *Caranx*, Pacific Ocean, Mexico, **Zerecero y D.**, M. C.; Monogenea on fishes of the Chukotsk Peninsula, **Zukov**, E. V. (1); Helminths from fishes in Sea of Japan and southern Kurile waters, **Zukov**, E. V. (2).

Amphibia.—*Brachycoelium obesum* in *Plethodon glutinosus* and *P. cinereus*, Virginia, **Cheng**, T. C. (2); Trematodes from *Rana tigrina* in E. Pakistan, **Coil**, W. H. & **Kuntz**, R. E. (2); Helminths from Amphibia, Utah, **Frandsen**, J. C. & **Grundmann**, A. W. (2); Cestodes from Tasmanian Anura, **Hickman**, J. L.; Monogenea from Amphibia, **Korath**, K. J. (1); Helminths from Amphibia, California, **Lehmann**, D. I.; *Megalodiscus microphagus* in *Hyla regilla*, *Rana aurora* and *Taricha granulosa*, Oregon, **Macy**, R. W. (2); Helminths from Amphibia, Albania, **Prokopić**, J. (2); Metacercaria of *Astiotrema monticellii* in *Pelobates*, *Rana* and *Hyla* spp., Russia, **Shevchenko**, N. N. & **Vergin**, G. I.; Trematodes from batrachians in Estado do Pará, Brazil, **Teixeira de Freitas**, J. F. (3); New Opisthioglyphine trematode in amphibians, Brazil, **Teixeira de Freitas**, J. F. (5); New *Telorchis* sp. in larval salamanders, Idaho, **Waitz**, J. A.; New unnamed nematode-like cestode in *Plethodon vandykei*, Idaho, **Waitz**, J. A. & **Mehra**, K. N.; Anatomy of *Polystoma integerrimum*, **Williams**, J. B. (1); (2); *Proalaria excavata* metacercaria in *Rana ridibunda*, Russia, **Yanchev**, Y. & **Bozhkov**, D.

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†*Conchicolites* Nicholson revised, type : *C. gregarius* Nich., Ordovician, *C. deoniensis*, sp. nov., p. 843 pls. figs., Angers, Devonian, **Pillet, J.**

†*Cordylodus excavatus* sp. nov., p. 1045 fig., Ordovician, Ohio and Kentucky, **Sweet, W. C. et al.**; †*C. robustus* sp. nov., p. 543 fig., Ordovician, Manitoba, **Ethington, R. L. & Furnish, W. M.**—†*C. oklahomensis*, p. 447 figs., Arbuckle Mts., Oklahoma, *C. proavus*, p. 448 figs., Arbuckle Mts., Oklahoma, spp. nov., Cambrian, **Müller, K. J. (2).**

†*Cornulitella* Howell, revised, type : *Ortonia conica* Nicholson, Ordovician, Ohio, **Pillet, J.**

†*Cornulites* Schlotheim, revision, type: *C. serpularius* Schloth., Silurian, Gotland, C. ? *andegazensis* sp. nov., p. 843 pl. figs., Angers, Devonian, **Pillet**, J.

†*Ctenognathodus* gen. nov. pro *Ctenognathus* Pander, 1956, nec Fairmaire, 1843, **Fay**, R. O.

†*Ctenopolygnathus* gen. nov., p. 1084, type: *C. [Polygnathus] angustidica* (Youngquist 1945), Devonian, Iowa, **Müller**, K. J. & E. M.

†*Cyrtionodus sinclairi* sp. nov., p. 270 fig., Ordovician, Manitoba, **Ethington**, R. L. & **Furnish**, W. M.

†*Distacodus procerus* sp. nov., p. 275 fig., Ordovician, Iowa, **Ethington**, R. L. (1).—†*D. palmeri*, p. 449 figs., Nevada, D. (?) *cambricus*, p. 450 figs., Sweden, sp. nov., Cambrian, **Müller**, K. J. (2).

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†*Eoligonodina magna* sp. nov., p. 277 figs., Ordovician, Iowa, **Ethington**, R. L. (1).—†*E. fairmountensis* sp. nov., p. 253 fig., Ordovician, Kentucky, **Pulse**, R. R. & **Sweet**, W. C.—†*E. ulrichi* sp. nov., p. 222 figs., Ordovician, Wyoming, **Stone**, G. L. & **Furnish**, W. M.

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†*Furnishius* gen. nov., p. 310, type: *F. triseratus* sp. nov., p. 310 figs., Lower Triassic, Nevada, **Clark**, D. L.

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†*Goniodontus* gen. nov., p. 278, type: *G. superbus* sp. nov., p. 278 figs., Ordovician, Iowa, **Ethington**, R. L. (1).

†*Hertzina* gen. nov., p. 453, type: *H. americana* sp. nov., p. 455 figs., Nevada, *H. elongata*, p. 455 figs., Pommern, *H. ? bisulcata*, p. 456 figs., Sweden, sp. nov., Cambrian, **Müller**, K. J. (2).

†*Hibbardella milleri*, p. 18 figs., *ortha*, p. 18 figs., sp. nov., Carboniferous, Illinois, **Rexroad**, C. B. (2).

†*Hindeodella ibergensis*, p. 28 figs., *segaformis*, p. 28 figs., sp. nov., Carboniferous, Germany, **Bischoff**, G.—†*H. adunca* sp. nov., p. 57 figs., Devonian, Germany, **Bischoff**, G. & **Ziegler**, W.—†*H. mulleri* sp. nov., p.

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†*Hindeodellinae* subfam. nov., Coelodontidae, pp. 378, 383, includes *Hindeodella*, *Cervicornoides*, *Kladognathus*, *Tripodellus*, *Metaproniodus*, **Hass**, W. H. (2).

†*Hindeodina* gen. nov., Coelodontinae, p. 382, type: *simplicaria*, p. 382 figs., *uncata*, p. 383 fig., sp. nov., Carboniferous, Texas, **Hass**, W. H. (2).

†*Icrodididae* fam. nov., p. 1105, Lower-Upper Devonian, **Müller**, K. J. & E. M.

†*Icriodus pesavis* sp. nov., p. 96 figs., Schübelebene Devonian, **Bischoff**, G. & **Sannemann**, O.—†*I. obliquimarginatus* sp. nov., p. 62 fig., Devonian, Germany, **Bischoff**, G. & **Ziegler**, W.—†*I. darbyensis*, p. 1086 figs., *mehli*, p. 1086 figs., sp. nov., Devonian, Wyoming, **Klapper**, G.—†*I. woschmidtii*, sp. nov., p. 185 fig., Devonian, Germany, **Ziegler**, W. (3).

†*Keislognathus simplex* sp. nov., p. 280 figs., Ordovician, Iowa, **Ethington**, R. L. (1).

†*Kladognathus* gen. nov. pro *Cladognathus* **Rexroad**, 1957, nec **Burmeister**, 1847, **Fay**, R. O.—†*K. nom. nov.* pro *Cladognathus* **Rexroad**, 1957, nec **Burmeister**, 1947, type: *K. prima*, Carboniferous, Illinois, p. 10, **Rexroad**, C. B. (2).

†*Kolihia* **Prantl** revised, type: *K. eremita* **Prantl**, 1944, Wenlockian, Bohemia, **Pillet**, J.

†*Lambdagnathus* gen. nov., Prioniodontidae, p. 19, type: *L. fragilidens* sp. nov., p. 20 figs., Carboniferous Illinois, **Rexroad**, C. B. (2).

†*Lepodus* **Branson** & **Mehl**, 1933, nec **Rafinesque**, 1810, a syn. of *Lepognathus* **Mehl**, 1958, **Fay**, R. O.

†*Ligonodina hamata*, p. 32 figs., *obunca*, p. 32 figs., sp. nov., Carboniferous, Illinois, **Rexroad**, C. B. (1).

†*Ligonodininae* subfam. nov., Coelodontidae, pp. 378, 384, includes *Ligonodina*, *Euprioniodina*, *Synprioniodina*, *Hindeodelloides*, *Logognathus*, **Hass**, W. H. (2).

†*Lonchodina* (?) *recurvata* sp. nov., p. 34 figs., Carboniferous, Germany, **Bischoff**, G.—†*L. monodentata*, p. 68 figs., *ramulata*, p. 69 figs., *richteri*, p. 70 figs., sp. nov., Devonian, Germany, **Bischoff**, G. & **Ziegler**, W.—†*L. spengleri*, p. 152 figs., *venusta*, p. 152 fig., "n. sp. A", p. 153 figs., sp. nov., Trias, Austria, **Huckriede**, R.—†*L. furnishi*, p. 22 figs., *paraclaviger*, p. 22 figs., sp. nov., Carboniferous, Illinois, **Rexroad**, C. B. (2).—†*L. epiloca* sp. nov., p. 469 fig., Mississippian, **Stanley**, E. A.—†*L. mulleri*, p. 133 figs., *suavica*, p. 134 fig., sp. nov., Trias, Germany, **Tatge**, U.—†*L. walliseri*, p. 188 fig., *cristagalli*, p. 189 fig., sp. nov., Devonian, Germany, **Ziegler**, W. (3).

†*Loxognathus grandis*, sp. nov., p. 281 fig., Ordovician, Iowa, **Ethington**, R. L. (1).

†*Mestognathus* gen. nov., p. 36, type: *M. beckmanni* sp. nov., p. 37 figs., Carboniferous, Germany, **Bischoff**, G.

†*Metalonchodina ? dinodoides*, p. 135 figs., *mediocris*, p. 136 fig., *digitiformis*, p. 136 fig., *triquetra*, p. 137 fig., sp. nov., Trias, Germany, **Tatge**, U.

†*Microcoelodus sweeti* sp. nov., p. 224 fig., Ordovician, Wyoming, **Stone**, G. L. & **Furnish**, W. M.

†*Neopronionodontinae subfam. nov.*, Coleodontidae, pp. 378, 383, includes *Neopronionodus*, *Leptochirognathus*, *Loxodus*, *Pachysomia*, *Subpronionodus*, *Hass*, W. H. (2).

†*Neopronionodus insolitus*, p. 383 figs., *lanceolatus*, p. 384 figs., *spp. nov.*, Carboniferous, Texas, *Hass*, W. H. (2).—†*N. postinversus sp. nov.*, p. 644 figs., Upper Devonian, Germany, *Helms*, J. (2).—†*N. alytus sp. nov.*, p. 471 fig., Mississippi, *Stanley*, E. A.—†*N. camurus*, p. 33 figs., *epimoeus*, p. 34 figs., *erectus*, p. 34 figs., *loxus*, p. 34 figs., *striatus*, p. 35 figs., *tenuis*, p. 35 figs., *spp. nov.*, Carboniferous, Illinois, *Rexroad*, C. B. (1).

†Neurodontiformes may represent primitive vertebrates related to the "jaw-like" Ordovician fossil *Archeognathus*, not conodonts as originally suggested, *Rhodes*, F. H. T. & *Wingard*, P. S.

†*Nothognathella* (?) *falcata*, p. 645 figs., *ziegleri*, p. 645 figs., *spp. nov.*, Upper Devonian, Germany, *Helms*, J. (2).

†*Oligodus* Cooper, 1939, preoccupied *Rafinesque*, 1815, latter considered a nomen nudum so *Oligodus* Cooper, 1939, remains valid, *Fay*, R. O.

†*Oneotodus gallatini sp. nov.*, p. 457 figs., Wyoming, *O. n. sp.* ? aff. *gallatini*, p. 457 figs., *O. tenuis sp. nov.*, p. 457 figs., S. Dakota, Cambrian, *Müller*, K. J. (2).—†*O.* (?) *beckmanni sp. nov.*, p. 98 figs., Schübelebene Devonian, *Bischoff*, G. & *Sannemann*, D.

†*Oulodus rohneri sp. nov.*, p. 544 figs., Ordovician, N. Manitoba, *Ethington*, R. L. & *Furnish*, W. M.—†*O. easteri sp. nov.*, p. 255 figs., Ordovician, Ohio, *Pulse*, R. R. & *Sweet*, W. C.

†*Ozarkodina ballai*, p. 74 figs., *lata*, p. 76 figs., *kutschieri*, p. 79 figs., *toxata*, p. 80 figs., *spp. nov.* Devonian, Germany, *Bischoff*, G. & *Ziegler*, W.—†*O. inclinata sp. nov.*, p. 735 figs., Ordovician, Iowa, *Glenister*, A. T.—†*O. homoarcuata nom. nov. pro Subbryantodus arcuatus* Branson & Mehl, non *Ozarkodina arcuata* B. & M., p. 646, *lacera sp. nov.*, p. 647 figs., Upper Devonian, Germany, *Helms*, J. (2).—†*O. saginata sp. nov.*, p. 153 figs., Trias, Austria, *Huckriede*, R.—†*O. compressa*, p. 36 figs., *recta*, p. 36 figs., *bella*, p. 37 figs., *spp. nov.* Carboniferous, Illinois, *Rexroad*, C. B. (1).—†*O. curvata sp. nov.*, p. 24 figs., Carboniferous, Illinois, *Rexroad*, C. B. (2).—†*O. willsi sp. nov.*, p. 364 figs., Devonian, South Devon, *Rhodes*, F. H. T. & *Dineley*, D. L. (1).—†*O. deflecta*, p. 472 figs., *pachyamba*, p. 473 figs., *spp. nov.*, Mississippi, *Stanley*, E. A.—†*O. kockeli*, p. 137 figs., *tortilis*, p. 138 figs., *breviramulidis*, p. 139 figs., *spp. nov.*, Trias, Germany, *Tatge*, U.

†*Palmatolepis*, morphology and histology, p. 40 figs., *Gross*, W. (1).—†*P. (Mantilepis) amana*, p. 1101 fig., (*M. hassi*, p. 1102 figs., *spp. nov.*, Devonian, Iowa, *Müller*, K. J. & E. M.—†*P. glabra*, intraspecific variability, *Scott*, A. J. & *Collinson*, C.

†*Paltodus feulneri sp. nov.*, p. 728 fig., Ordovician, Iowa, *Glenister*, A. T.

†*Panderodus gen. nov.*, p. 284, type : *P. [Paltodus] uncostatus* (Branson & Mehl, 1933), Ordovician, Iowa, *Ethington*, R. L. (1).

†*Pandorinellina nom. nov. pro Pandorina* Stauffer, 1940, nec Bory de St. Vincent, 1827, Scacchi, 1833, type: *P. [Pandorina] insita* (Stauffer 1940) p. 378, *Hass*, W. H. (2).

†*Parachirognathus gen. nov.*, p. 311, type : *P. ethingtoni sp. nov.*, p. 311 figs., *geiseri sp. nov.*, p. 312 figs., Lower Triassic, Nevada, *Clark*, D. L.

†*Pelekygnathus* (?) *primitiva sp. nov.*, p. 83 figs., Devonian, Germany, *Bischoff*, G. & *Ziegler*, W.

†*Plectrospathodus robustus sp. nov.*, p. 101 figs., Schübelebene Devonian, *Bischoff*, G. & *Sannemann*, D.

†*Plagagnathus gen. nov.*, p. 544, type : *P. nelsoni sp. nov.*, p. 544 figs., Ordovician, Manitoba, *Ethington*, R. L. & *Furnish*, W. M.

†Polygnathaceae *superfam. nov.*, p. 1083, for Polygnathidae, Gnathodontidae and Icriodidae *fam. nov. q.v.*, *Müller*, K. J. & E. M.

†*Polygnathus*, morphology and histology, p. 40 figs., *Gross*, W. (2).—†*P. angustipennata*, p. 85 figs., *beckmanni*, p. 86 fig., *dengleri*, p. 87 figs., *spp. nov.*, *dubia asymmetrica subsp. nov.*, p. 88 figs., *ciflia*, p. 89 figs., *kockeliana*, p. 91 figs., *robusticostata*, p. 95 figs., *trigonica*, p. 97 figs., *variabilis*, p. 99 figs., *spp. nov.*, Devonian, Germany, *Bischoff*, G. & *Ziegler*, W.—†*P. communis bifurcata*, p. 390 figs., *communis carina*, p. 391 figs., *vars. nov.*, Carboniferous, Texas, *Hass*, W. H. (2).—†*P. diversa sp. nov.*, p. 650 figs., Upper Devonian, Germany, *Helms*, J. (2).—†*P. abneptis*, p. 156 figs., *tethydis*, p. 157 figs., *spp. nov.*, Trias, Austria, *Huckriede*, R.—†*P. wyomingensis sp. nov.*, p. 1090 figs., Devonian, Wyoming, *Klapper*, G.—†*P. amana*, p. 1085 fig., *independensis*, p. 1088 figs., *unicornis*, p. 1089 figs., *spp. nov.*, Devonian, Iowa, *Müller*, K. J. & E. M.—†*P. pura sp. nov.*, p. 291 figs., *p. pura*, p. 291 figs., *p. subplana*, p. 292 figs., *subsp. nov.*, L. Carboniferous, Germany, *Voges*, A.

†*Prioniodella pectiniformis sp. nov.*, p. 158 figs., Trias, Austria, *Huckriede*, R.—†*P. ctenoides*, p. 139 fig., *decrescens*, p. 140 fig., *spp. nov.*, Trias, Germany, *Tatge*, U.

†*Prioniodina lata sp. nov.*, p. 47 figs., Carboniferous, Germany, *Bischoff*, G.—†*P. schneideri sp. nov.*, p. 107 figs., Germany, Devonian, *Bischoff*, G. & *Ziegler*, W.—†*P. montellensis sp. nov.*, p. 309 fig., Lower Triassic, Nevada, *Clark*, D. L.—†*P. kochi sp. nov.*, p. 159 figs., Trias, Austria, *Huckriede*, R.—†*P. velicuspis sp. nov.*, p. 259 figs., Ordovician, Kentucky, *Pulse*, R. R. & *Sweet*, W. C.—†*P. rotunda sp. nov.*, Ordovician, Ohio and Kentucky, p. 1061 figs., *Sweet*, W. C. et al.—†*P. latidentata*, p. 140 figs., *insignis*, p. 141 figs., *spp. nov.*, Trias, Germany, *Tatge*, U.

†*Prionognathodus gen. nov. pro Prionognathus* Pander, 1856, nec Ferté-Sénectère, 1851, *Fay*, R. O.

†*Pristognathus gen. nov.*, p. 226, type : *P. bighornensis sp. nov.*, p. 226 figs., Ordovician, Wyoming, *Stone*, G. L. & *Furnish*, W. M.

†*Proacodus gen. nov.*, p. 458, type : *P. obliquus sp. nov.*, p. 458 figs., Mark Brandenburg, Cambrian, *Müller*, K. J. (2).

†*Problematoconites gen. nov.*, p. 470, type : *P. perforata sp. nov.*, p. 470 fig., Rügen, Cambrian, *Müller*, K. J. (2).

†*Pseudopolygnathus lanceolata sp. nov.*, p. 391 figs., Carboniferous, Texas, *Hass*, W. H. (2).—†*P. triangula sp. nov.*, p. 301 fig., *t. triangula*, p. 304 fig., *t. inaequalis*, p. 302 fig., *t. pinnata*, p. 302 figs., *subsp. nov.*, L. Carboniferous, Germany, *Voges*, A.

†*Pygodus gen. nov.*, p. 67, type : *P. anserinus sp. nov.*, p. 67 figs., Ordovician, Sweden, *Lamont*, A. & *Lindström*, M.

†*Rhynchognathodus nom. nov. pro Rhynchognathus* Ethington, 1959, nec Jackel, 1929, *Ethington*, R. L. (2).

†*Rhynchognathus* **gen. nov.**, p. 286, type: *R. typica* **sp. nov.**, p. 286 figs., *abundantata* **sp. nov.**, p. 286 figs., Ordovician, Iowa, **Ethington**, R. L. (1).

†*Roundya triangularis*, p. 111 figs., *wildungenensis*, p. 112 figs., **spp. nov.**, Devonian, Germany, **Bischoff**, G. & **Ziegler**, W.—†*R. plana*, p. 654 fig., *prava*, p. 655 fig., **spp. nov.**, Upper Devonian, Germany, **Helms**, J. (2).—†*R. lautissima* **sp. nov.**, p. 160 figs., Austria, "n. sp. A", p. 161 fig., Pakistan, **Trias**, **Huckriede**, R.—†*R. costata* **sp. nov.**, p. 26 figs., Carboniferous, Illinois, **Rexroad**, C. B. (2).—†*R. bidentata*, p. 142 fig., *meissneri*, p. 143 figs., *magnidentata*, p. 143 figs., **spp. nov.**, Trias, Germany, **Tatge**, U.

†*Sagittodontus dentatus*, p. 287 **sp. nov.**, fig., Ordovician, Iowa, **Ethington**, R. L. (1).—†*S. dahlmani*, p. 460 figs., Öland, *S. dunderbergiae*, p. 461 figs., Nevada, *S. eureka*, p. 461 figs., Nevada, **spp. nov.** Cambrian, **Müller**, K. J. (2).

†*Scandodus oelandicus*, p. 463 figs., Öland, *S. rarus*, p. 463 figs., Oderberg, *S. tortilis*, p. 464 figs., Berlin-Spandau-West, **spp. nov.**, Cambrian, **Müller**, K. J. (2).

†*Scolopodus devonicus* **sp. nov.**, p. 103 fig., Schübelebene, Devonian, **Bischoff**, G. & **Sannemann**, O.

†*Scutula* (?) *thuringa*, p. 656 figs., *tripodis*, p. 657 figs., **spp. nov.**, Upper Devonian, Germany, **Helms**, J. (2).

†*Siphonodella cooperi*, p. 392 figs., *obsoleta*, p. 392 figs., **spp. nov.**, Carboniferous, Texas, **Hass**, W. H. (2).

†*Spathognathodontinae* **subfam. nov.**, *Prioniodontidae*, pp. 378, 386, includes *Spathognathodus*, *Centrognathodus*, *Pinacognathus*, *Aphelognathus*, *Bryantodina*, *Dinodus*, *Elicognathus*, *Nodognathus*, *Oligodus*, *Falcodus*, *Pandorinella* (q.v.), *Lambdagnathus*, **Hass**, W. H. (2).

†*Spathognathodus* **Branson** & **Mehl**, 1941, a syn. of *Ctenognathodus* (*Ctenognathodus*), **Fay**, R. O.—†*S. spinulosus ultimus*, **subsp. nov.**, p. 57 figs., Carboniferous, Germany, **Bischoff**, G.—†*S. asymmetricus*, p. 104 figs., *frankewaldensis*, p. 105 figs., *transilans*, p. 107 pl. figs., *wurmi*, p. 108 figs., **spp. nov.**, Schübelebene, Devonian, **Bischoff**, G. & **Sannemann**, D.—†*S. bidentatus*, p. 114 figs., *bipennatus*, p. 115 figs., *brevis*, p. 116 figs., *planus*, p. 117 figs., *sannemanni*, p. 117 figs., **spp. nov.**, Devonian, Germany, **Bischoff**, G. & **Ziegler**, W.—†*S. cooperi*, p. 387 figs., *longus*, p. 388 figs., **spp. nov.**, Carboniferous, Texas, **Hass**, W. H. (2).—†*S. bohlenanus* **sp. nov.**, p. 658 figs., Upper Devonian, Germany, **Helms**, J. (2).—†*S. cristagalli*, p. 161 figs., Pakistan, *isarcica*, p. 162 figs., "n. sp. A", p. 163 figs., South Tyrol, Austria, **spp. nov.**, Trias, **Huckriede**, R.—†*S. campbelli* **sp. nov.**, p. 37 figs., Carboniferous, Illinois, **Rexroad**, C. B. (1).—†*S. remscheidensis* **sp. nov.**, p. 194 figs., Devonian, Germany, **Ziegler**, W. (3).

†*Stauronathus anchoraria* **sp. nov.**, p. 393 figs., Carboniferous, Texas, **Hass**, W. H. (2).

†*Subbryantodus stipans* **sp. nov.**, p. 39 fig., Carboniferous, Illinois, **Rexroad**, C. B. (1).

†*Tetraprioniodus parvus* **sp. nov.**, p. 288 fig., Ordovician, Iowa, **Ethington**, R. L. (1).

†*Trichonodella insolita*, p. 289 fig., *exacta*, p. 290 figs., **spp. nov.**, Iowa, **Ethington**, R. L. (1).—†*T. angulata*, p. 1064 figs., *T. subundulata*, p. 1065 figs., **spp. nov.**, Ordovician, **Sweet**, W. C. et al.—†*T. fragilis*, p. 40 figs., *imperfecta*, p. 41 figs., **spp. nov.**, Carboniferous, Illinois, **Rexroad**, C. B. (1).

†*Tripodellus robustus* **sp. nov.**, p. 58 fig., Carboniferous, Germany, **Bischoff**, G.—†*T. tenuis* **sp. nov.**, p. 659 figs., Upper Devonian, Germany, **Helms**, J. (2).

†*Valentia* Smith, 1907, *ne* Stal, 1865, a syn. of *Scotlandia* **Cossmann**, 1909, **Fay**, R. O.

†*Westergaardodina* **gen. nov.**, p. 465, type: *W. bicuspidata* **sp. nov.**, p. 468 figs., Mark Brandenburg, *W. amplicava*, p. 467 figs., Sweden, *W. bohlini*, p. 469 figs., Öland, *W. kleva*, p. 469 figs., Sweden, *W. mössbergensis*, p. 470 figs., Sweden, *W. tricuspidata*, p. 470 figs., Öland, **spp. nov.**, Cambrian, **Müller**, K. J. (2).

†*Zygognathus maysvillensis*, **sp. nov.**, p. 262 figs., Ordovician, Kentucky, **Pulse**, R. R. & **Sweet**, W. C.

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†*Arabellites ausablensis*, *A. comis*, *A. cultriformis*, *A. cushingi*, *A. politus*, *A. productus*, *A. similis*, *A. spinosus*, *A. falciformis*, *A. hamiltonensis*, *A. jubatus*, *A. magniulcatus*, *A. milleri*, *A. oblatu*, *A. prosseri*, *A. southwardi*, *A. arcuatus*, *A. dauphinensis*, *A. laetus* and *A. pectinellus*, Middle Devonian, S.W. Ontario, **Stumm**, E. C. & **Wright**, J. D.

†*Diopatraites conformis*, Middle Devonian, S.W. Ontario, **Stumm**, E. C. & **Wright**, J. D.

†*Eumicites* (?) *alveolatus*, *E. angulatus*, *E. grandis*, *E. nanus*, *E. palmatus*, *E. perplamus*, *E. tumidus*, *E. delicatulus*, *E. serratus*, *E. subhamellosus*, *E. placidus*, Middle Devonian, S.W. Ontario, **Stumm**, E. C. & **Wright**, J. D.—†*E. scolatus* **sp. nov.**, p. 42 figs., Devonian, Missouri, **Sylvester**, R. K.

†*Glycerites devonicus*, Middle Devonian, S.W. Ontario, **Stumm**, E. C. & **Wright**, J. D.

†*Ildraites anatus*, Middle Devonian, S.W. Ontario, **Stumm**, E. C. & **Wright**, J. D.

†*Leodicites magnificus*, Middle Devonian, S.W. Ontario, **Stumm**, E. C. & **Wright**, J. D.—†*L. imparilis* **sp. nov.**, p. 43 figs., Devonian, Missouri, **Sylvester**, R. K.

†*Lumbriconereites spectabilis*, Middle Devonian, S.W. Ontario, **Stumm**, E. C. & **Wright**, J. D.—†*L. conformis* **sp. nov.**, p. 45 figs., Devonian, Missouri, **Sylvester**, R. K.

†*Marphysaites liratus* **sp. nov.**, p. 46 figs., Devonian, Missouri, **Sylvester**, R. K.

†*Nereidarus ontarioensis*, *N. planus*, *N. solitarius*, *N. inornatus*, Middle Devonian, S.W. Ontario, **Stumm**, E. C. & **Wright**, J. D.—†*N. giganteus* **sp. nov.**, p. 46 figs., Devonian, Missouri, **Sylvester**, R. K.

†*Nothrites sulcatus*, Middle Devonian, S.W. Ontario, **Stumm**, E. C. & **Wright**, J. D.

†*Oenonites compactus*, Middle Devonian, S.W. Ontario, **Stumm**, E. C. & **Wright**, J. D.

†*Paleoenonites dubius* **sp. nov.**, p. 47 figs., Devonian, Missouri, **Sylvester**, R. K.

†*Protarabellites canadensis*, *P. diminutus*, *P. excelsus* and *P. giganteus*, Middle Devonian, S.W. Ontario, **Stumm**, E. C. & **Wright**, J. D.

†*Ungulites spicatus* **sp. nov.**, p. 48 figs., Devonian, Missouri, **Sylvester**, R. K.

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†*Chlamys nuwokenensis* **sp. nov.**, pp. 104, 120 figs., Miocene, Alaska, **MacNeil**, F. S.

†*Fucusopsis angulatus* from the Danian-Palaeocene of Poland, ecology and general study, **Birkenmajer**, K.

†*Gyrochorte carbonaria* **sp. nov.**, p. 278 figs., Carboniferous, Germany, **Schleicher**, L.

†*Helicodromites mobilis* **gen. nov., sp. nov.**, p. 540 figs., Oligocene, Germany, **Berger, W.**

†*Isopodichnus* spec. inq. from Triassic, Jena, formation and modes of occurrence, **Müller, A. H. (2).**

†*Legnodesmus ehlersi* proposed as the type of *Legnodesmus* figured by Ehlers [Palaeontographica 17 1869], **Howell, B. F. (1).**

†*Lockportia*, new name for Silurian genus *Dactylethra* Ruedemann, 1925, type : *L. [D.] conspicua*, **Howell, B. F.**

†*Nuculana morrissi* **sp. nov.**, pp. 104, 120 fig., Miocene, Alaska, **MacNeil, F. S.**

†*Planolites* (?) *vermiculare* **sp. nov.**, p. 651 figs., Carboniferous (?), Germany, **Müller, A. H. (3).**—

†*P. cf. montanus* Richter, Carboniferous, Germany, **Schleicher, L.**—†*P. ophthalmoides* and *P. montanus*, Carboniferous, Wurmrevier of Aachen, p. 457 figs., **Vangerow, E. F.**

†*Rhizocorallites* **gen. nov.**, p. 409, Helminthoid, type : *R. articulare* **sp. nov.**, figs., Trias, Germany, **Müller, A. H. (1).**

Rhizocorallium (?) *striatum* **sp. nov.**, Triassic, Julian Alps, p. 441 figs., **Kühn, O.**

†*Rhombocorniculum comleyense* **gen. nov., sp. nov.**, p. 176 figs., Lower Cambrian, England, **Walliser, O. H.**

†*Ruedemannella*, new name for Silurian genus *Bertiella* Ruedemann, 1925 : type-species—*R. obesa*, **Howell, B. F.**

†*Siphonites heberti*, Lias, Chalindrey, Haute-Marne, **Gardet, G., Laugier, R. & Lessertisseur, J.**

†*Tosahelminthes* **gen. nov.**, p. 333, type : *T. curvata* **sp. nov.**, p. 333 fig., Eocene, Japan, **Katto, J.**

